S2330.1

# 1978 Iowa Motor Vehicle Accidents

DEPARTMENT OF TRANSPORTATION IOWA

Office of Safety Programs

Iowa Department of Transportation
Office of Safety Programs
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Des Moines, Iowa 50319
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# Annual Estimate of Population for the State of Georgia

## 1978


State Data Center

OFFICE OF PLANNING & BUDGET

270 Washington Street, S. W., Atlanta, Georgia 30334

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September 1979


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# Contents


| | |
|---|---|
| METHODOLOGY OF POPULATION ESTIMATES | 1 |
| POPULATION ESTIMATES BY COUNTIES | 4 |
| MAP OF COUNTIES WITH A POPULATION 40,000 AND OVER | 9 |
| MAP OF COUNTIES WITH A 20% OR GREATER INCREASE IN POPULATION 1970-1978 | 10 |
| MAP OF FIFTY LARGEST COUNTIES IN ABSOLUTE POPULATION INCREASE 1970-1978 | 11 |
| MAP OF AREA PLANNING AND DEVELOPMENT COMMISSIONS | 12 |
| POPULATION ESTIMATES OF AREA PLANNING AND DEVELOPMENT COMMISSIONS AND THEIR COMPONENT COUNTIES | 13 |
| MAP OF STANDARD METROPOLITAN STATISTICAL AREAS | 20 |
| POPULATION ESTIMATES OF STANDARD METROPOLITAN STATISTICAL AREAS AND THEIR COMPONENT COUNTIES | 21 |



Cost $376
Quantity
1M

## Foreward

* The format of the vehicle pages in this year's report has been changed to emphasize the number of **accidents** by vehicle type, rather than the number of vehicles of each type involved in accidents. We have also made several changes in the summary to provide you with more information about 1978 traffic accidents.

* The 1978 Iowa fatality figure includes all persons who died as a result of a traffic acident on public roads within one year of the accident, or before April 1, 1979.

  The 1979 fatality figure will include all persons who die as a result of a traffic accident within 30 days of the accident. The change has been made by the U.S. Department of Transportation to promote nationwide uniformity in the reporting of highway fatalities.

## Acknowledgement

The Iowa Department of Transportation wishes to express appreciation to all law enforcement agencies and officers for their work in accident investigation which made this report possible. All information concerning Iowa traffic accidents was taken from report forms provided by investigating officers and drivers involved in accidents.

We hope this information will be of value in analyzing the causes of traffic accidents in Iowa and that it emphasizes the need for concerned, well prepared drivers and a safe driving environment.

Prepared by
Office of Safety Programs
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# CONTENTS


Page

I. Foreward ..... i

II. Glossary ..... iv

III. Summary:

a. A look at Iowa ..... 1
b. Trends (1960-78) ..... 2
c. Vehicle miles/fatalities (1960-78) ..... 3
d. Drinking and driving ..... 4
e. Pedestrians ..... 5
f. Driver: age/sex ..... 6
g. Holiday fatalities (1962-78) ..... 8
h. Time ..... 9
i. Counties ..... 10
j. Special research ..... 14

IV. Vehicles Involved in Accidents:

a. Overall summary ..... 15
b. By type:

Automobiles
Automobiles ..... 18
Automobiles with trailers ..... 20

Buses
Buses ..... 23
School buses ..... 25

Cycles
Bicycles ..... 26
Motorcycles ..... 28

Farm Vehicles ..... 30

Maintenance Vehicles ..... 32

Motor Homes ..... 34

Recreational Vehicles ..... 36

Trains ..... 38

Trucks
Panel trucks ..... 40
Pickups ..... 42
Pickups with campers ..... 44
Pickups with trailers ..... 46
Straight trucks ..... 48
Tow trucks ..... 50
Truck tractors ..... 52
Truck tractors with trailers ..... 54

V. Investigating Officer's Report Form (sample) ..... 56

## Glossary

**Traffic Accident:** An accident involving one or more motor vehicles on a public road resulting in personal injury or property damage of at least $250.

**Fatal accident:** Accident in which one or more persons are killed.

**Personal injury accident:** Accident in which no one is killed, but one or more persons is injured.

**Property damage accident:** Accident in which no one is killed or injured, but damage of $250 or more is incurred.

**Fatality:** Person killed as a result of a traffic accident.

**Alcohol-related:** Concerning an accident where either a driver or a pedestrian is listed on an accident report as drinking prior to the accident.

**Vehicle miles:** Iowa vehicle-mile figures are the estimated total number of miles traveled on Iowa primary and secondary highways and urban and rural roads and streets by all vehicles during a given period.

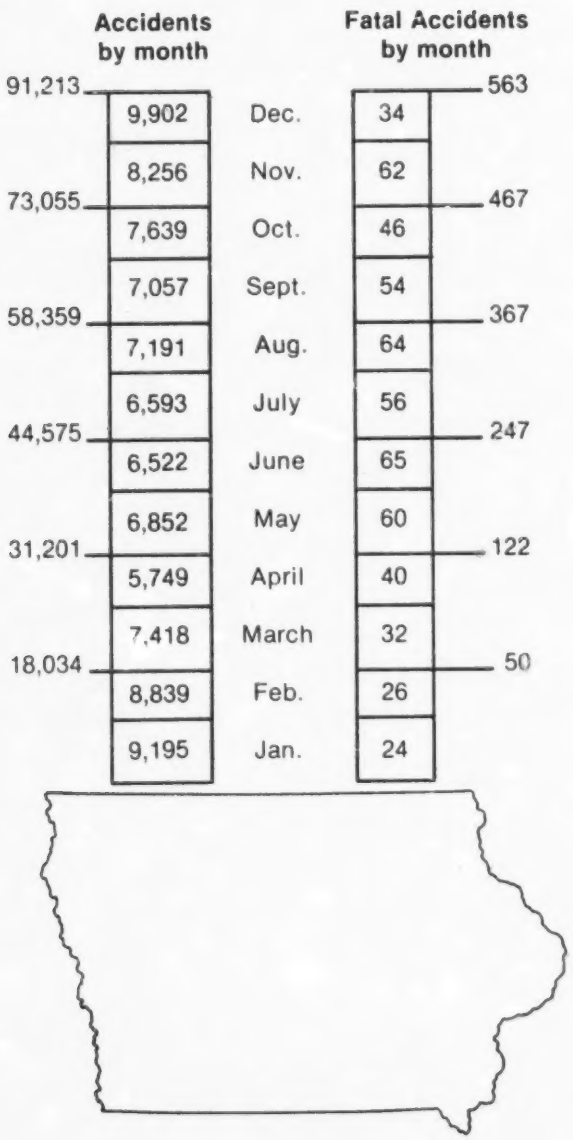
**Fatality rate:** Number of fatalities per 100 million vehicle miles.

**Accident rate:** Number of accidents per one million vehicle miles.

**Registered vehicle:** Vehicle licensed in the county of residence of the owner.

# SUMMARY
## General

## A look at Iowa...




In 1978 there was:

1 accident every 6 minutes

1 driver out of every 15 involved in an accident

1.8 lives lost per day because of traffic accidents. (A total of 650 lives lost in 1978.)

86.6 persons injured per day because of traffic accidents. (A total of 31,627 persons injured in 1978.)

# SUMMARY
## Trends 1968-1978

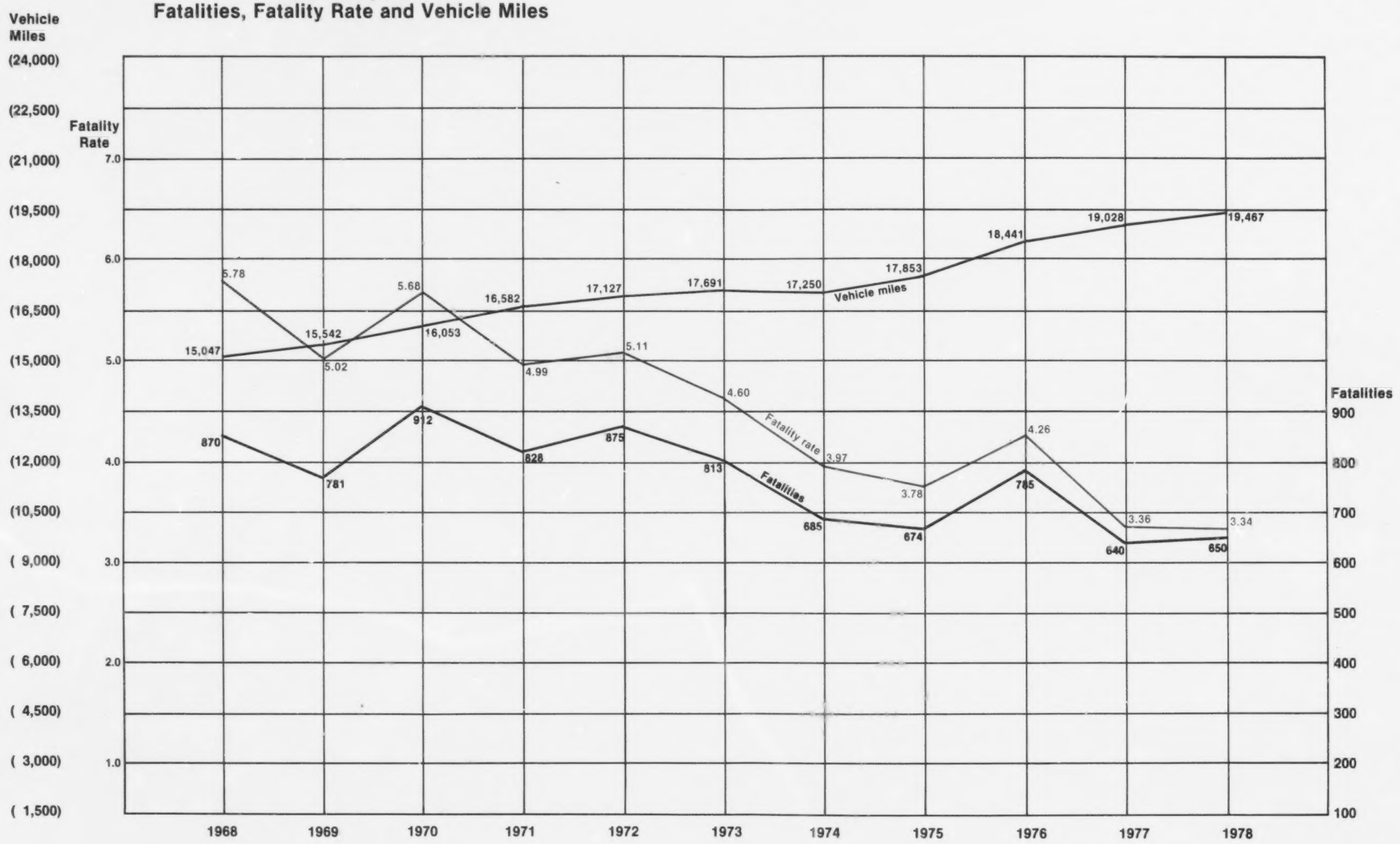
| Year | All Acc. | Fatalities | Fatal Acc. | Injury Acc. | Vehicle Miles (Million) | Fatality Rate* | Fatal Acc. Rate* | Acc. Rate** |
|---|---|---|---|---|---|---|---|---|
| 1968 | 78,531 | 870 | 724 | 21,915 | 15,047 | 5.78 | 4.81 | 5.22 |
| 1969 | 87,469 | 781 | 639 | 22,110 | 15,542 | 5.02 | 4.11 | 5.63 |
| 1970 | 87,808 | 912 | 752 | 22,339 | 16,053 | 5.68 | 4.68 | 5.47 |
| 1971 | 87,100 | 828 | 681 | 21,411 | 16,582 | 4.99 | 4.11 | 5.25 |
| 1972 | 91,918 | 875 | 722 | 23,814 | 17,127 | 5.11 | 4.22 | 5.37 |
| 1973 | 96,620 | 813 | 682 | 24,683 | 17,691 | 4.60 | 3.86 | 5.46 |
| 1974 | 91,117 | 685 | 583 | 22,851 | 17,250 | 3.97 | 3.38 | 5.28 |
| 1975 | 94,825 | 674 | 578 | 23,082 | 17,853 | 3.78 | 3.24 | 5.31 |
| 1976 | 98,000 | 785 | 663 | 24,218 | 18,441 | 4.26 | 3.60 | 5.31 |
| 1977 | 87,771 | 640 | 561 | 22,358 | 19,028 | 3.36 | 2.95 | 4.61 |
| 1978 | 91,213 | 650 | 563 | 21,651 | 19,467 | 3.34 | 2.89 | 4.69 |

* Per 100 million vehicle miles traveled.
**Per one million vehicle miles traveled.

# SUMMARY

## Vehicle Miles/ Fatalities

## Trends Comparison:
## Fatalities, Fatality Rate and Vehicle Miles



# SUMMARY
## Drinking/driving

In 1978, Iowa ranked sixth lowest in the nation in the amount of alcohol consumed per capita, according to the Iowa Beer and Liquor Commission, slightly lower in rank than in 1977. Alcohol-related fatal accidents also decreased -- to 36 percent in 1978 from 39 percent the previous year.

In Iowa, drivers involved in fatal accidents are not required by law to submit to an alcohol test. Testing for alcohol is based on "probable cause" as determined by the investigating officer. Care should be used in comparing the yearly percentages of alcohol-related fatal accidents due to fluctuations in the number of reports received.

Iowa alcohol-related accident figures should not be compared to states where a driver alcohol test is mandatory.

**Age of Drinking Drivers**

| | All Accidents | | Fatal Accidents | | Injury Accidents | | Property Damage Accidents | |
|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % |
| 15 & under | 28 | 0.3 | -- | -- | 9 | 0.3 | 19 | 0.4 |
| 16 | 188 | 2.3 | 6 | 2.9 | 71 | 2.2 | 111 | 2.4 |
| 17 | 370 | 4.5 | 5 | 2.4 | 163 | 5.0 | 202 | 4.3 |
| 18 | 734 | 9.0 | 25 | 12.2 | 315 | 9.6 | 394 | 8.4 |
| 19 | 677 | 8.3 | 15 | 7.3 | 265 | 8.1 | 397 | 8.5 |
| 20 | 594 | 7.3 | 12 | 5.8 | 251 | 7.7 | 331 | 7.1 |
| 21-24 | 1,807 | 22.2 | 51 | 24.9 | 755 | 23.1 | 1,001 | 21.4 |
| 25-34 | 1,943 | 23.9 | 57 | 27.8 | 780 | 23.9 | 1,105 | 23.7 |
| 35-44 | 766 | 9.4 | 12 | 5.8 | 297 | 9.1 | 457 | 9.8 |
| 45-54 | 523 | 6.4 | 11 | 5.3 | 198 | 6.1 | 314 | 6.7 |
| 55-64 | 335 | 4.4 | 6 | 2.9 | 115 | 3.5 | 214 | 4.6 |
| 65-74 | 135 | 1.7 | 3 | 1.5 | 40 | 1.2 | 92 | 2.0 |
| 75 & over | 36 | 0.4 | -- | -- | 7 | 0.2 | 29 | 0.6 |
| Not stated | 7 | 0.1 | 2 | 1.0 | 0 | -- | 5 | 0.1 |
| Total | 8,143 | 99.9 | 205 | 100.0 | 3,266 | 100.0 | 4,671 | 100.0 |

# SUMMARY
## Pedestrians

**Fatalities:**

| Age | Killed | % |
|---|---|---|
| 0-4 | 9 | 16 |
| 5-10 | 7 | 12 |
| 11-14 | 5 | 9 |
| 15-19 | 3 | 5 |
| 20-24 | 8 | 14 |
| 25-34 | 4 | 7 |
| 35-44 | 6 | 10 |
| 45-54 | 2 | 3 |
| 55-64 | 1 | 2 |
| 65 + | 13 | 22 |
| Total | 58 | |

Of all pedestrian fatalities, 50% were persons under 11 or over 64 years of age.

**Alcohol-Related Pedestrian Accidents:**

| | Accidents | % |
|---|---|---|
| Pedestrian (only) drinking | 8 | 14 |
| Driver (only) drinking | 4 | 7 |
| Pedestrian and driver drinking | 1 | 2 |
| No alcohol involvement | 28 | 50 |
| Unknown | 16 | 28 |
| Total | 57* | |

*There were 58 pedestrians killed in 57 pedestrian accidents during 1978.

**All Pedestrian Accidents:**

| Pedestrian Action | Killed | Injured |
|---|---|---|
| Crossing against signal | 1 | 16 |
| Not crossing at crosswalk | 15 | 106 |
| Walking, improper position on roadway | 6 | 18 |
| Soliciting rides on road | 2 | 0 |
| Walking with traffic | 2 | 13 |
| Walking against traffic | 1 | 5 |
| Crossing with signal or in crosswalk | 6 | 82 |
| Ran onto roadway or into road from between parked cars | 7 | 177 |
| Directing traffic | 1 | 5 |
| Playing | 1 | 20 |
| Lying or sitting on roadway | 2 | 5 |
| Pushing, working on vehicle | 1 | 25 |
| Getting on or off vehicle | 0 | 15 |
| Maint./const. project | 0 | 5 |
| Walking, off roadway | 1 | 11 |
| Unknown | 12 | 470 |
| Total | 58 | 973 |

| Driver Action/ Contributing Circum.* | Fatal Acc. | Injury Acc. |
|---|---|---|
| Ran traffic control | 0 | 14 |
| Improper passing | 0 | 7 |
| Left of center, not passing | 0 | 1 |
| Failure to yield | 7 | 101 |
| Speeding | 3 | 11 |
| Drag racing | 1 | 0 |
| Improper turn | 0 | 2 |
| Improper lane change | 0 | 1 |
| Following too close | 1 | 0 |
| Disregarded R.R. sign | 0 | 1 |
| Disregarded warning signal | 0 | 1 |
| Reckless driving | 0 | 12 |
| Improper backing | 0 | 9 |
| Failure to have control | 1 | 10 |
| Driver physical condition | 0 | 2 |
| Driver drinking | 5 | 10 |
| Inattentive/distracted | 2 | 36 |
| Confused/inexperienced | 0 | 15 |
| Vision obscured | 2 | 46 |
| Vehicle defect | 1 | 2 |

*0-2 actions/circumstances were listed for each driver.

# SUMMARY
## Driver: Age/Sex

| Age | Licensed Drivers | Drivers Involved in Accidents | Drivers Involved in Fatal Acc. | Acc. Rate** | Fatal Acc. Rate** |
|---|---|---|---|---|---|
| 15 & under | 55,406* | 936 | 15 | 169 | 2.71 |
| 16 | 46,000 | 7,495 | 32 | 1,629 | 6.96 |
| 17 | 58,000 | 9,193 | 26 | 1,585 | 4.48 |
| 18 | 60,000 | 9,560 | 59 | 1,593 | 9.83 |
| 19 | 63,000 | 8,244 | 47 | 1,309 | 7.46 |
| 20-24 | 304,000 | 29,025 | 188 | 954 | 6.18 |
| 25-34 | 507,000 | 31,748 | 181 | 626 | 3.57 |
| 35-44 | 316,000 | 16,790 | 95 | 531 | 3.00 |
| 45-54 | 287,000 | 13,347 | 77 | 465 | 2.68 |
| 55-64 | 266,000 | 10,816 | 70 | 407 | 2.63 |
| 65-74 | 184,000 | 6,438 | 33 | 350 | 1.79 |
| 75 & up | 86,000 | 3,516 | 30 | 409 | 3.49 |
| Not stated | -- | 461 | 10 | -- | -- |
| Total | 2,180,000 | 147,569 | 863 | 677 | 3.96 |
| **Sex** | | | | | |
| Male | 1,155,000 | 100,219 | 693 | 868 | 6.00 |
| Female | 1,025,000 | 46,923 | 166 | 458 | 1.62 |
| Not stated | -- | 427 | 4 | -- | -- |
| Total | 2,180,000 | 147,569 | 863 | 677 | 3.96 |

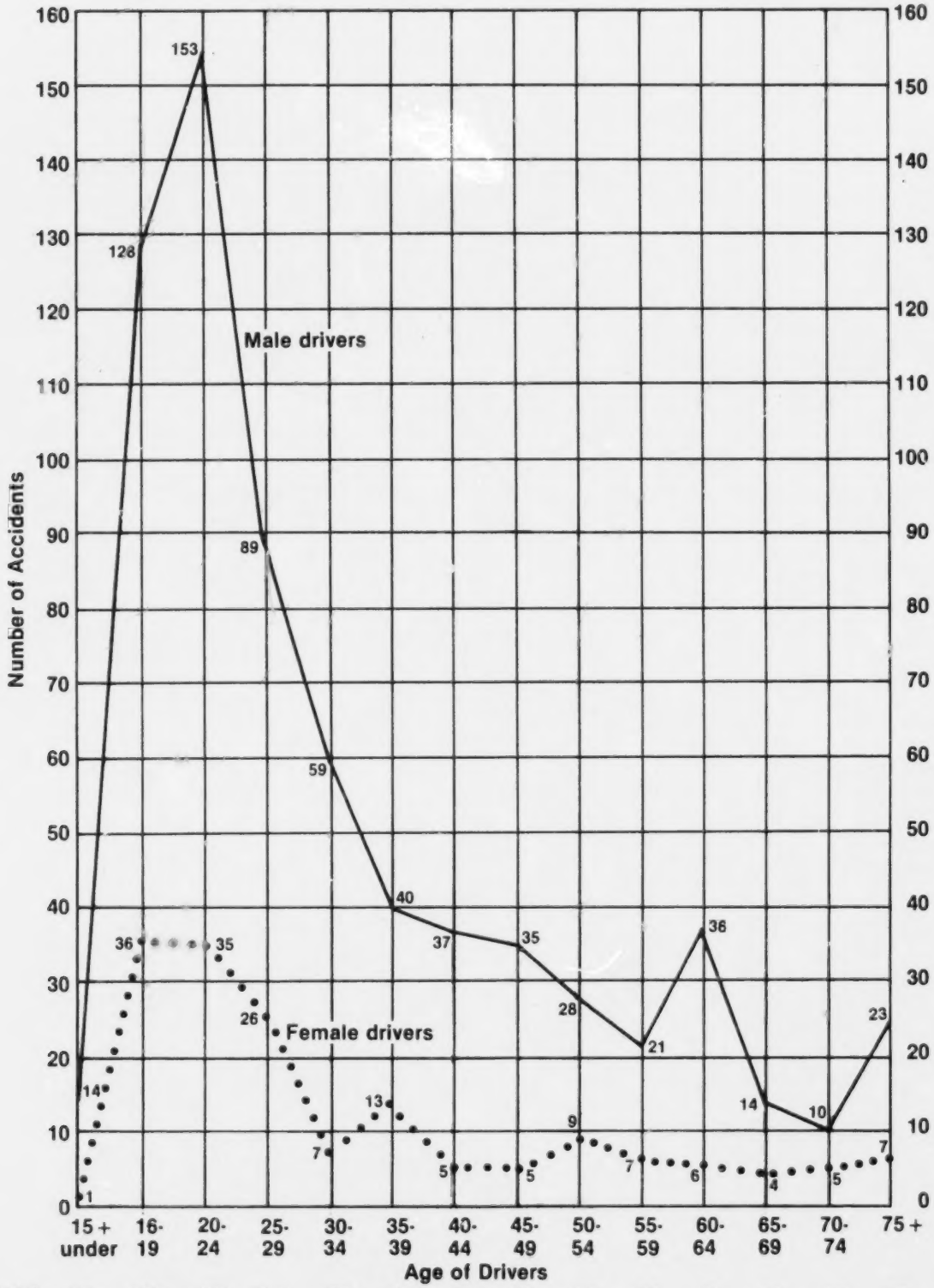
*Includes instruction permits and school permits (permits to drive to and from school)
**Accidents/fatal accidents per 10,000 licensed drivers

# SUMMARY

**Driver: Age / Sex**

**1978 Fatal Accidents**

| Drivers: | | |
|---|---|---|
| — Male | 687 | 80.3% |
| • • • Female | 166 | 19.2% |
| Age/sex unknown | 10 | .5% |
| Total | 863 | 100.0% |




| Total: | 15 | 164 | 188 | 115 | 66 | 53 | 42 | 40 | 37 | 28 | 42 | 18 | 15 | 30 | = 853 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

# SUMMARY
## Holiday Fatalities

**Holiday Traffic Fatalities**
**Iowa, 1962-78**

In 1978, for the holidays described in the table below, the average number of deaths per day was 2.3. However, the average number of deaths per day for all weekends in 1978 was 2.6. **Note: Figures in parentheses show number of full days in each holiday period.**

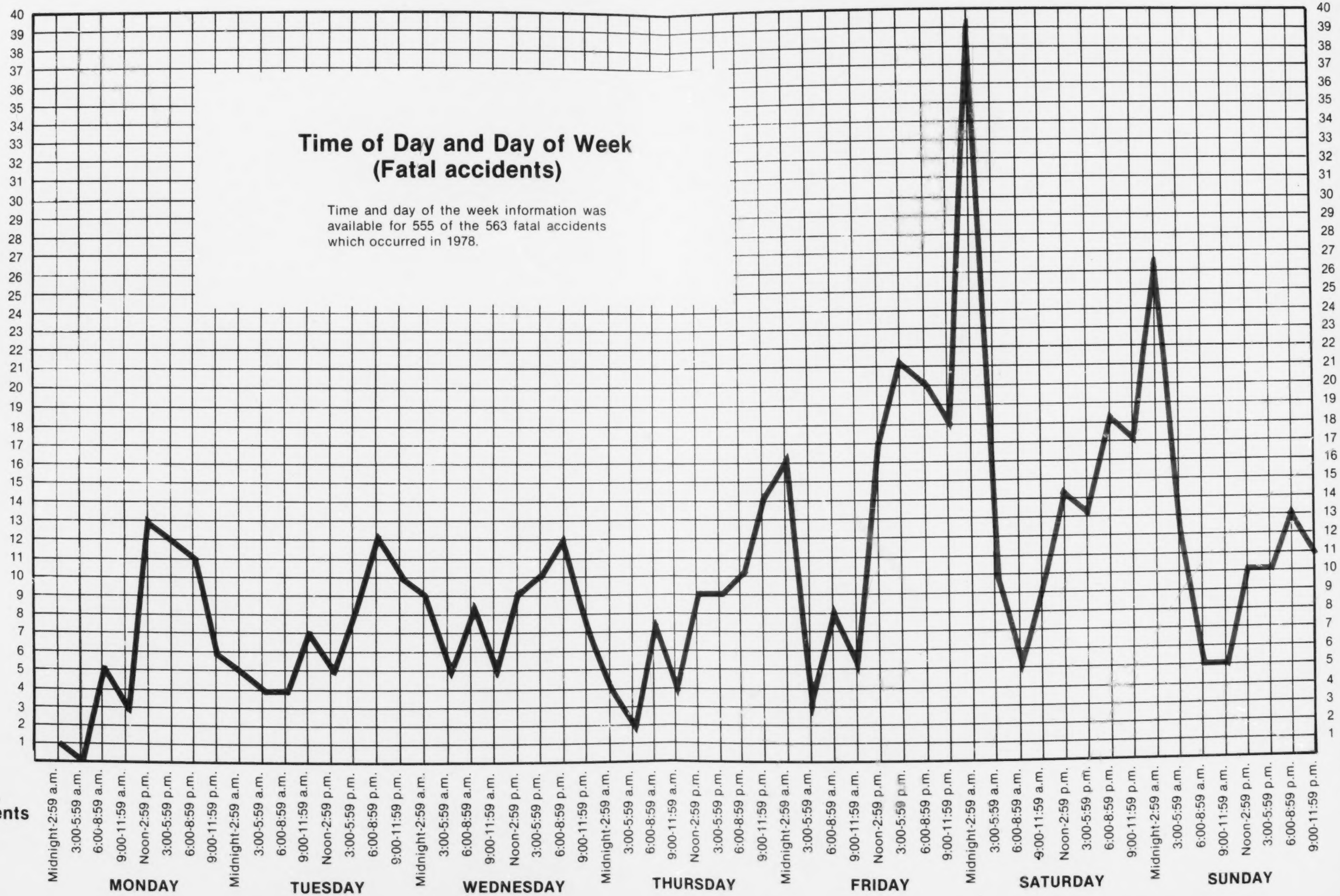
| Year | Memorial Day | Fourth of July | Labor Day | Thanksgiving Day | Christmas Day | New Year's Day |
|---|---|---|---|---|---|---|
| 1962 | 2 (2) | -- (1) | 5 (3) | No Record | 11 (4) | 3 (4) |
| 1963 | 6 (4) | 18 (4) | 8 (3) | No Record | 7 (1) | 4 (1) |
| 1964 | 4 (3) | 7 (3) | 15 (3) | No Record | 13 (3) | 3 (3) |
| 1965 | 6 (3) | 9 (3) | 11 (3) | No Record | 13 (3) | 7 (3) |
| 1966 | 11 (3) | 7 (3) | 27 (3) | No Record | 6 (3) | 6 (3) |
| 1967 | 7 (4) | 13 (4) | 9 (3) | No Record | 8 (3) | 4 (3) |
| 1968 | 11 (4) | 16 (4) | 18 (3) | 10 (4) | 5 (1) | 1 (1) |
| 1969 | 7 (3) | 10 (3) | 11 (3) | 13 (4) | 7 (4) | 12 (4) |
| 1970 | 8 (3) | 10 (3) | 13 (3) | 12 (4) | 7 (3) | 8 (3) |
| 1971 | 5 (3) | 12 (3) | 15 (3) | 12 (4) | 9 (3) | 4 (3) |
| 1972 | 9 (3) | 3 (1) | 6 (3) | 14 (4) | 12 (3) | 5 (3) |
| 1973 | 7 (3) | 5 (1) | 11 (3) | 14 (4) | 9 (4) | 6 (4) |
| 1974 | 4 (3) | 8 (4) | 16 (3) | 13 (4) | 4 (1) | 6 (1) |
| 1975 | 6 (3) | 7 (3) | 8 (3) | 3 (4) | 5 (4) | 5 (4) |
| 1976 | 6 (3) | 16 (3) | 10 (3) | 9 (4) | 5 (3) | 9 (3) |
| 1977 | 11 (3) | 16 (3) | 6 (3) | 7 (4) | 5 (3) | 1 (3) |
| 1978 | 13 (3) | 8 (4) | 5 (3) | 14 (4) | 3 (3) | 3 (3) |

## SUMMARY

**Time - Fatal Accidents**

## Time of Day and Day of Week (Fatal accidents)

Time and day of the week information was available for 555 of the 563 fatal accidents which occurred in 1978.



## Fatalities by County
## 1974-1978

Numbers represent fatalities, in order, for each year from 1974 through 1978.

# SUMMARY
## Counties

| County | Registrations | All Acc. | Acc. Rate* | Fatal Acc. | Fatal Acc. Rate* |
|---|---|---|---|---|---|
| Adair | 10,708 | 280 | 261 | 6 | 5.60 |
| Adams | 6,859 | 121 | 176 | 1 | 1.46 |
| Allamakee | 15,646 | 480 | 307 | 4 | 2.56 |
| Appanoose | 15,738 | 374 | 238 | 3 | 1.91 |
| Audubon | 9,278 | 214 | 231 | 3 | 3.23 |
| Benton | 24,379 | 520 | 213 | 6 | 2.46 |
| Black Hawk | 128,256 | 5,008 | 390 | 21 | 1.64 |
| Boone | 28,207 | 708 | 251 | 4 | 1.42 |
| Bremer | 24,334 | 584 | 240 | 5 | 2.05 |
| Buchanan | 22,386 | 581 | 260 | 6 | 2.68 |
| Buena Vista | 22,138 | 625 | 282 | 1 | 0.45 |
| Butler | 18,913 | 314 | 166 | 3 | 1.59 |
| Calhoun | 14,776 | 329 | 223 | 3 | 2.03 |
| Carroll | 22,455 | 696 | 310 | 3 | 1.34 |
| Cass | 18,762 | 539 | 287 | 6 | 3.20 |
| Cedar | 19,971 | 445 | 223 | 3 | 1.50 |
| Cerro Gordo | 47,922 | 1,818 | 379 | 6 | 1.25 |
| Cherokee | 18,093 | 496 | 274 | 5 | 2.76 |
| Chickasaw | 15,453 | 298 | 193 | 7 | 4.53 |
| Clarke | 8,851 | 272 | 307 | 0 | 0.00 |
| Clay | 21,077 | 683 | 324 | 9 | 4.27 |
| Clayton | 21,234 | 496 | 234 | 6 | 2.83 |
| Clinton | 53,144 | 1,997 | 376 | 10 | 1.88 |
| Crawford | 19,143 | 631 | 330 | 9 | 4.70 |
| Dallas | 31,698 | 674 | 213 | 6 | 1.89 |
| Davis | 8,542 | 201 | 235 | 5 | 5.85 |
| Decatur | 9,309 | 211 | 227 | 4 | 4.30 |
| Delaware | 17,673 | 416 | 235 | 4 | 2.26 |
| Des Moines | 45,890 | 1,282 | 279 | 8 | 1.74 |
| Dickinson | 17,911 | 527 | 294 | 3 | 1.67 |
| Dubuque | 74,527 | 3,096 | 415 | 15 | 2.01 |
| Emmett | 14,882 | 382 | 257 | 1 | 0.67 |
| Fayette | 24,979 | 542 | 217 | 3 | 1.20 |
| Floyd | 20,729 | 548 | 264 | 1 | 0.48 |
| Franklin | 15,097 | 342 | 227 | 1 | 0.66 |
| Fremont | 10,667 | 261 | 245 | 3 | 2.81 |
| Greene | 14,277 | 329 | 230 | 2 | 1.40 |
| Grundy | 15,806 | 257 | 163 | 3 | 1.90 |
| Guthrie | 13,320 | 274 | 206 | 1 | 0.75 |
| Hamilton | 19,961 | 639 | 320 | 7 | 3.51 |
| Hancock | 15,266 | 282 | 185 | 3 | 1.97 |
| Hardin | 23,307 | 578 | 248 | 3 | 1.29 |
| Harrison | 16,753 | 550 | 328 | 9 | 5.37 |
| Henry | 19,871 | 508 | 256 | 4 | 2.01 |
| Howard | 11,600 | 198 | 171 | 4 | 3.45 |

*Per 10,000 registered vehicles

# SUMMARY
## Counties

| County | Registrations | All Acc. | Acc. Rate* | Fatal Acc. | Fatal Acc. Rate* |
|---|---|---|---|---|---|
| Humboldt | 14,569 | 319 | 219 | 3 | 2.06 |
| Ida | 9,876 | 244 | 247 | 3 | 3.04 |
| Iowa | 16,673 | 433 | 260 | 3 | 1.80 |
| Jackson | 21,812 | 470 | 215 | 6 | 2.75 |
| Jasper | 38,481 | 1,017 | 264 | 7 | 1.82 |
| Jefferson | 15,556 | 441 | 283 | 2 | 1.29 |
| Johnson | 63,650 | 2,468 | 388 | 14 | 2.20 |
| Jones | 19,492 | 532 | 273 | 4 | 2.05 |
| Keokuk | 14,305 | 238 | 166 | 5 | 3.50 |
| Kossuth | 24,747 | 546 | 221 | 6 | 2.42 |
| Lee | 41,484 | 1,558 | 376 | 12 | 2.89 |
| Linn | 154,962 | 5,604 | 362 | 16 | 1.03 |
| Louisa | 13,178 | 225 | 171 | 4 | 3.04 |
| Lucas | 10,898 | 274 | 251 | 1 | 0.91 |
| Lyon | 13,358 | 294 | 220 | 8 | 5.99 |
| Madison | 13.964 | 312 | 223 | 5 | 3.58 |
| Mahaska | 23,613 | 671 | 284 | 2 | 0.85 |
| Marion | 28,164 | 857 | 304 | 6 | 2.13 |
| Marshall | 43,278 | 1,363 | 315 | 6 | 1.39 |
| Mills | 12,607 | 415 | 329 | 4 | 3.17 |
| Mitchell | 12,856 | 332 | 258 | 3 | 2.33 |
| Monona | 13,621 | 327 | 240 | 4 | 2.94 |
| Monroe | 9,616 | 278 | 289 | 3 | 3.12 |
| Montgomery | 13,990 | 401 | 287 | 4 | 2.86 |
| Muscatine | 39,269 | 1,093 | 278 | 11 | 2.80 |
| O'Brien | 17,829 | 409 | 229 | 3 | 1.68 |
| Osceola | 9,147 | 167 | 183 | 1 | 1.09 |
| Page | 18,105 | 487 | 269 | 2 | 1.10 |
| Palo Alto | 13,761 | 313 | 227 | 6 | 4.36 |
| Plymouth | 23,805 | 670 | 281 | 5 | 2.10 |
| Pocahontas | 13,077 | 266 | 203 | 4 | 3.06 |
| Polk | 276,744 | 14,363 | 519 | 28 | 1.01 |
| Pottawattamie | 76,662 | 3,296 | 430 | 27 | 3.52 |
| Poweshiek | 19,995 | 539 | 270 | 5 | 2.50 |
| Ringgold | 7,248 | 155 | 214 | 2 | 2.76 |
| Sac | 15,898 | 391 | 246 | 4 | 2.52 |
| Scott | 137,451 | 5,795 | 422 | 21 | 1.53 |
| Shelby | 15,659 | 308 | 197 | 4 | 2.55 |
| Sioux | 28,122 | 612 | 218 | 8 | 2.84 |
| Story | 57,067 | 1,873 | 328 | 11 | 1.93 |
| Tama | 20,933 | 456 | 218 | 3 | 1.43 |
| Taylor | 9,026 | 164 | 182 | 1 | 1.11 |
| Union | 13,995 | 472 | 337 | 1 | 0.71 |
| Van Buren | 9,163 | 114 | 124 | 5 | 5.46 |
| Wapello | 39,263 | 1,087 | 277 | 9 | 2.29 |

*Per 10,000 registered vehicles

# SUMMARY
## Counties

| County | Registrations | All Acc. | Acc. Rate* | Fatal Acc. | Fatal Acc. Rate* |
|---|---|---|---|---|---|
| Warren | 33,858 | 712 | 210 | 10 | 2.95 |
| Washington | 20,797 | 476 | 229 | 6 | 2.89 |
| Wayne | 9,120 | 151 | 166 | 4 | 4.39 |
| Webster | 46,099 | 1,846 | 400 | 10 | 2.17 |
| Winnebago | 15,268 | 302 | 198 | 3 | 1.96 |
| Winneshiek | 19,990 | 623 | 312 | 5 | 2.50 |
| Woodbury | 89,931 | 3,306 | 367 | 10 | 1.11 |
| Worth | 9,782 | 153 | 156 | 0 | 0.00 |
| Wright | 17,742 | 389 | 219 | 3 | 1.69 |
| **Total** | **2,819,346** | **91,213** | **323** | **563** | **2.00** |

*Per 10,000 registered vehicles

# SUMMARY
## Special Research

Surveys on motorcycle helmet usage, motorcycle mileage and seat belt usage were conducted by the Office of Safety Programs in conjunction with the Office of Transportation Inventory during the summer of 1978. Findings included:

- The average Iowa motorcyclist rides 2,241 miles per year. The motorcycle fatality rate (deaths per 100 million vehicle miles) is six times higher than the rate for all vehicles.
- Helmets were worn by 22 percent of motorcycle operators on city streets. This compares to 61 percent for operators on rural interstates and 48 percent for operators on other rural roads.
- Only 11 percent of Iowans use seat belts. Use in the city is lower than on rural roads.

The reports, "Iowa Helmet Usage Survey and Motorcycle Mileage Study" and "Profiles of Iowa Motorcycle and Moped Operators," are available from the Office of Safety Programs.

# Accidents By Vehicle Type: 1978

| Vehicle Type | No. of Acc. Inv. Specific Vehicle Type | Percent of All Acc.* |
|---|---|---|
| Automobile | 79,873 | 87.6 |
| Automobile with trailer | 404 | .4 |
| Bus | 433 | .5 |
| School bus | 524 | .6 |
| Bicycle | 532 | .6 |
| Motorcycle | 2,516 | 2.8 |
| Farm vehicle | 452 | .5 |
| Maintenance vehicle | 506 | .6 |
| Motor home | 159 | .2 |
| Recreational vehicle | 289 | .3 |
| Train | 253 | .3 |
| Double bottom truck | 6 | .0 |
| Panel truck | 3,593 | 3.9 |
| Pickup | 18,154 | 19.9 |
| Pickup with camper | 368 | .4 |
| Pickup with trailer | 413 | .5 |
| Straight truck | 2,783 | 3.1 |
| Tow truck | 172 | .2 |
| Tractor with trailer | 2,981 | 3.3 |
| Truck tractor | 437 | .5 |

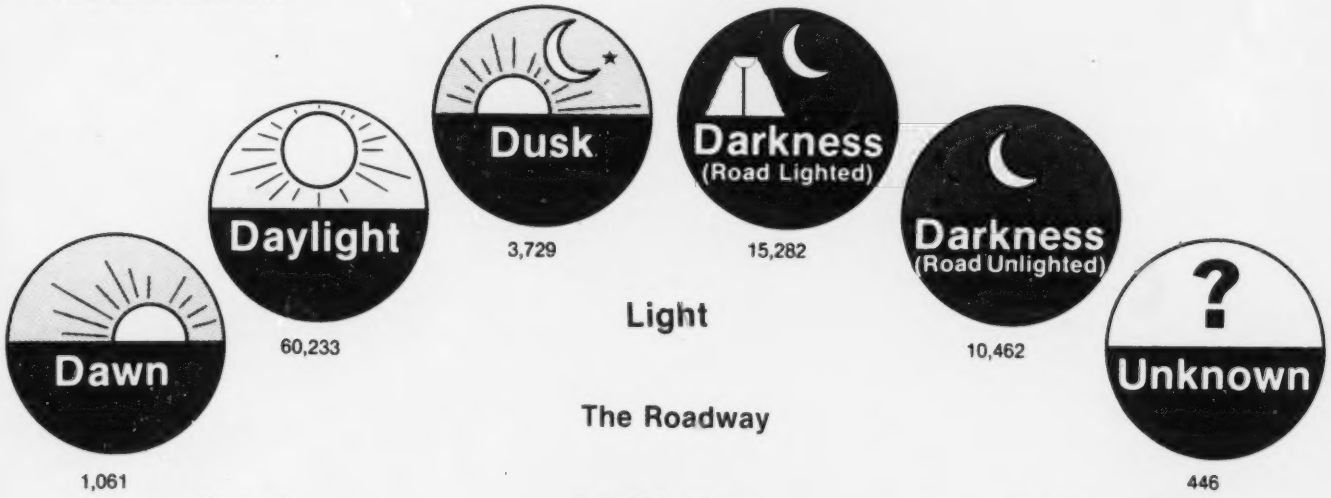
Note: Because only six accidents involving double bottom trucks occurred in Iowa in 1978, a page on double bottom trucks was not included. In 1977, there were nine accidents involving double bottom trucks, not 51 as listed in last year's accident report. For more information, contact the Office of Safety Programs.

*Percentages are based on 91,213 accidents which occurred in 1978.

# Iowa

## THE ENVIRONMENT

### ALL VEHICLES




**Light**

**The Roadway**

**Contour**

| | | | |
|---|---|---|---|
| Straight, level | 46,374 | | 51% |
| Straight, up/downgrade | 13,909 | | |
| Straight, hill crest | 1,484 | | |
| Curve, level | 3,954 | | |
| Curve, up/downgrade | 2,947 | 38,952 | 43% |
| Curve, hill crest | 230 | | |
| Intersection, level | 12,177 | | |
| Intersection, up/downgrade | 3,852 | | |
| Intersection, hill crest | 399 | | |
| Unknown/not stated | 5,887 | | 6% |
| Total no. of accidents | 91,213 | | |

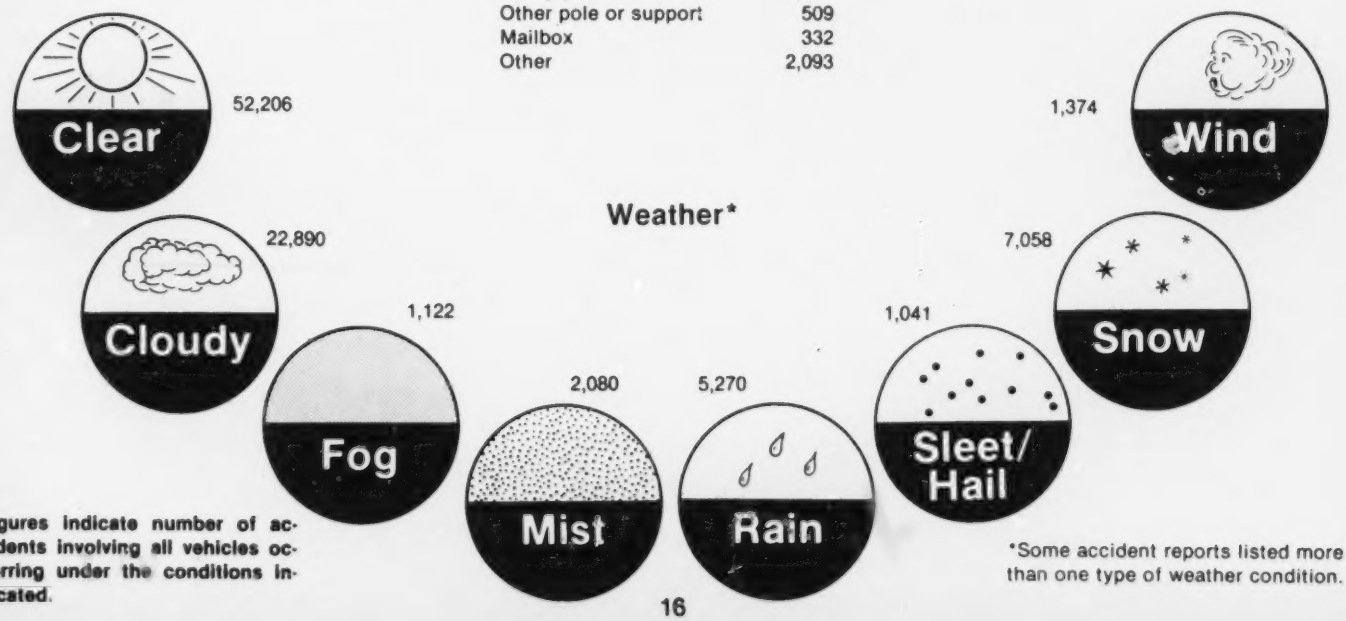
**Fixed Object Struck**

10% of vehicles involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 947 |
| Underpass/bridge support | 84 |
| Building | 457 |
| Culvert | 364 |
| Curb | 681 |
| Ditch | 3,265 |
| Island/raised median | 161 |
| Embankment/retaining wall | 474 |
| Fence | 1,208 |
| Guardrail | 750 |
| Light pole | 1,362 |
| Sign post | 1,173 |
| Tree or shrubbery | 885 |
| Utility pole | 1,471 |
| Other pole or support | 509 |
| Mailbox | 332 |
| Other | 2,093 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 56,847 | | 62% |
| Traffic signals | 11,402 | | 13% |
| Stop sign | 12,785 | | 14% |
| Yield sign | 1,137 | | |
| No passing zone (marked) | 634 | | |
| R.R. warning sign | 191 | 2,174 | 2% |
| R.R. automatic signal | 162 | | |
| R.R. crossing gate | 50 | | |
| Other/unknown/not stated | 8,005 | | 9% |
| Total no. of accidents | 91,213 | | |




**Figures indicate number of accidents involving all vehicles occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## ALL VEHICLES

**In 1978 there were:**
**586 motor vehicle occupants killed**
**91,213 accidents involving motor vehicles**
**83,336 collision accidents involving motor vehicles**
**7,877 non-collision accidents involving motor vehicles**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 3,739 | 2.5 |
| Improper passing | 1,575 | 1.1 |
| Left of center, not passing | 1,978 | 1.3 |
| Failure to yield | 14,330 | 9.7 |
| Wrong way, one-way road | 107 | 0.1 |
| Speed too fast | 6,794 | 4.6 |
| Drag racing | 26 | 0.0 |
| Improper turn | 2,028 | 1.4 |
| Improper lane change | 1,638 | 1.1 |
| Following too close | 2,923 | 2.0 |
| Improper or no signal | 666 | 0.5 |
| Disregarded R.R. signal | 62 | 0.0 |
| Disregarded warning signal | 209 | 0.1 |
| Reckless driving | 723 | 0.5 |
| Improper backing | 2,270 | 1.5 |
| Illegal or improper parking | 454 | 0.3 |
| Failure to have control | 13,144 | 8.9 |
| Lights not on | 172 | 0.1 |
| Physically unfit | 614 | 0.4 |
| Drinking | 2,554 | 1.7 |
| Inattentive/distracted | 5,763 | 3.9 |
| Confused/inexperienced | 2,690 | 1.8 |
| Vision obscured | 3,264 | 2.2 |
| Vehicle defect | 1,392 | 0.9 |
| Oversized vehicle | 115 | 0.1 |
| Other | 4,932 | 3.3 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 111,359 | | 75% |
| Physical defect | 260 | | |
| Fatigued | 931 | | |
| Apparently asleep | 908 | | |
| Ill | 77 | 5,236 | 4% |
| Under medication | 145 | | |
| Infirmities of age | 611 | | |
| Other | 2,304 | | |
| Unknown | 30,974 | | 21% |

*Based on 147,569 drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

## THE MACHINE

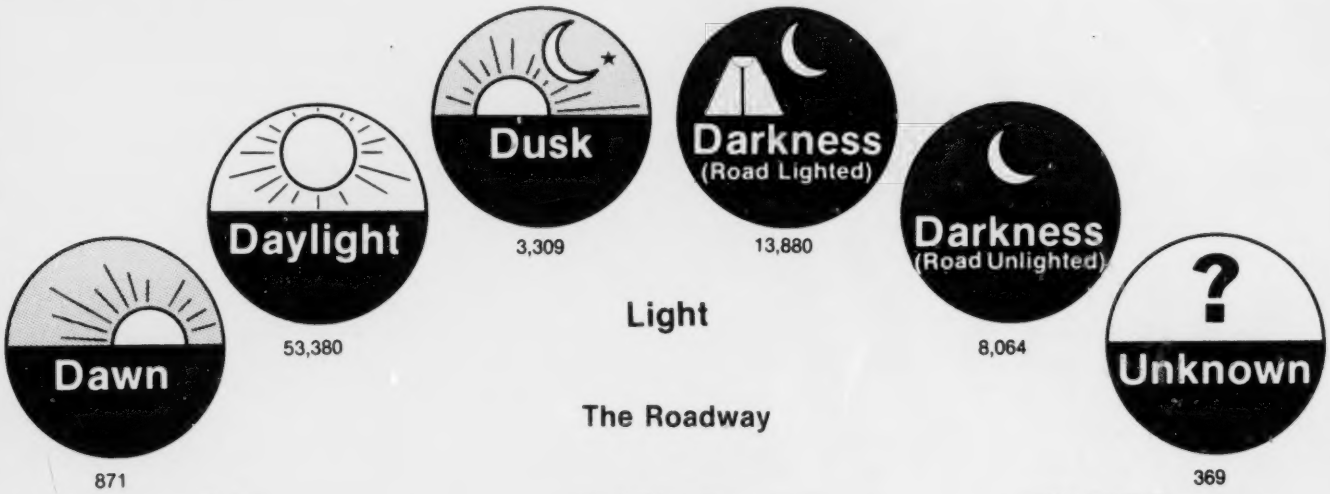
| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 79,757 | | 48% |
| Turning left | 14,889 | | 9% |
| Turning right | 6,338 | | |
| Making U-turn | 332 | | |
| Passing | 1,663 | | |
| Changing lanes | 1,594 | | |
| Merging | 892 | | |
| Parking | 524 | | |
| Slowing-stopping | 3,001 | 34,861 | 21% |
| Backing | 4,063 | | |
| Stopped in traffic | 6,283 | | |
| Parked | 7,900 | | |
| Unattended moving vehicle | 253 | | |
| Other | 2,018 | | |
| Unknown/not stated | [illegible] | | 22% |
| Total no. of vehicles | 166,906 | | |

| Vehicle Defects | | | |
|---|---|---|---|
| None | 71,321 | | 43% |
| Brakes | 717 | | |
| Lights | 233 | | |
| Steering | 158 | | |
| Wipers | 37 | | |
| Tires | 424 | [illegible] | 1% |
| Power failure | 162 | | |
| Trailer hitch | 49 | | |
| Other | 428 | | |
| Unknown/not stated | 93,377 | | 56% |
| Total no. of vehicles | 166,906 | | |

Iowa

# AUTOMOBILES

## THE ENVIRONMENT




### Light

### The Roadway

#### Contour

| | | | |
|---|---|---|---|
| Straight, level | 41,127 | | 51% |
| Straight, up/downgrade | 11,798 | | |
| Straight, hill crest | 1,258 | | |
| Curve, level | 3,050 | | |
| Curve, up/downgrade | 2,237 | | |
| Curve, hill crest | 177 | 33,544 | 42% |
| Intersection, level | 11,172 | | |
| Intersection, up/downgrade | 3,492 | | |
| Intersection, hill crest | 360 | | |
| Unknown/not stated | 5,202 | | |
| Total no. of accidents | 79,873 | | 7% |

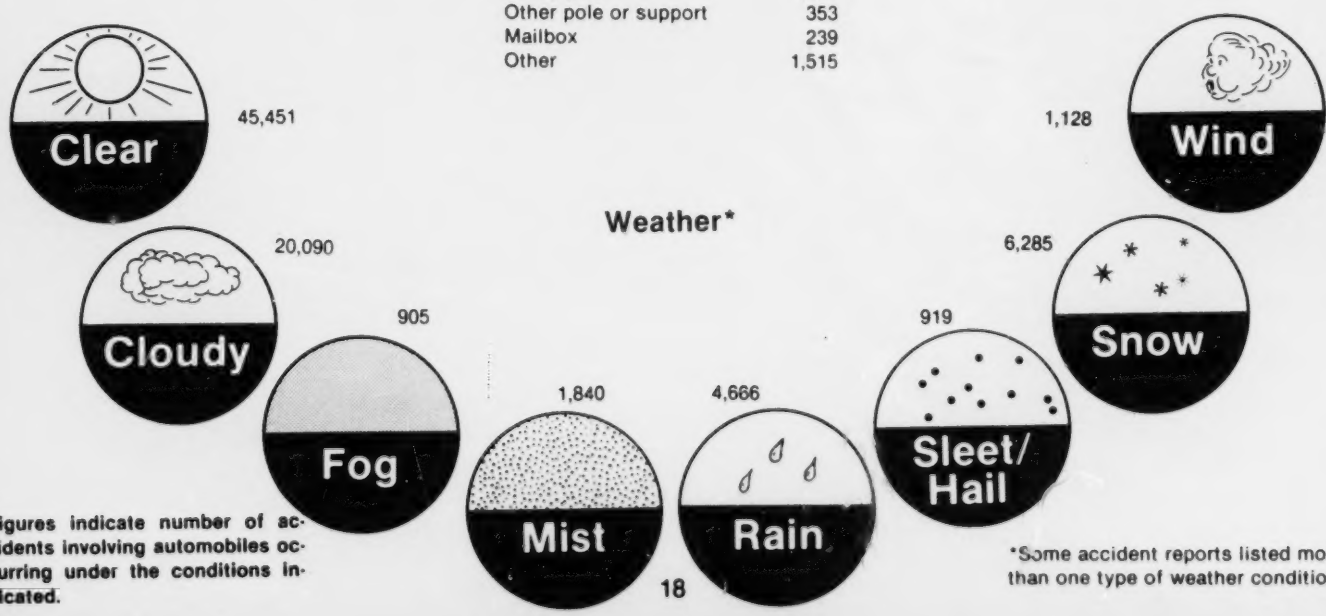
#### Fixed Object Struck

9% of all automobiles involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 660 |
| Underpass/bridge support | 50 |
| Building | 329 |
| Culvert | 268 |
| Curb | 513 |
| Ditch | 2,191 |
| Island/raised median | 119 |
| Embankment/retaining wall | 343 |
| Fence | 857 |
| Guardrail | 558 |
| Light pole | 1,025 |
| Sign post | 864 |
| Tree or shrubbery | 678 |
| Utility pole | 1,158 |
| Other pole or support | 353 |
| Mailbox | 239 |
| Other | 1,515 |

#### Traffic Controls

| | | | |
|---|---|---|---|
| No controls | 47,852 | | 60% |
| Traffic signals | 10,076 | | 13% |
| Stop sign | 10,222 | | 13% |
| Yield sign | 917 | | |
| No passing zone (marked) | 482 | | |
| R.R. warning sign | 134 | 1,680 | 2% |
| R.R. automatic signal | 111 | | |
| R.R. crossing gate | 36 | | |
| Other/unknown/not stated | 10,043 | | 13% |
| Total no. of accidents | 79,873 | | |




**Figures indicate number of accidents involving automobiles occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## AUTOMOBILES

**In 1978 there were:**
**381 automobile occupants killed**
**79,873 accidents involving automobiles**
**75,402 collision accidents involving automobiles**
**4,471 non-collision accidents involving automobiles**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 2,956 | 2.6 |
| Improper passing | 1,068 | 1.0 |
| Left of center, not passing | 1,482 | 1.3 |
| Failure to yield | 11,556 | 10.3 |
| Wrong way, one-way road | 85 | 0.0 |
| Speed too fast | 5,123 | 4.6 |
| Drag racing | 19 | 0.0 |
| Improper turn | 1,475 | 1.3 |
| Improper lane change | 1,168 | 1.0 |
| Following too close | 2,187 | 1.9 |
| Improper or no signal | 436 | 0.4 |
| Disregarded R.R. signal | 40 | 0.0 |
| Disregarded warning signal | 137 | 0.1 |
| Reckless driving | 560 | 0.5 |
| Improper backing | 1,533 | 1.4 |
| Illegal or improper parking | 310 | 0.3 |
| Failure to have control | 9,687 | 8.6 |
| Lights not on | 124 | 0.1 |
| Physically unfit | 455 | 0.4 |
| Drinking | 1,887 | 1.7 |
| Inattentive/distracted | 4,352 | 3.9 |
| Confused/inexperienced | 2,029 | 1.8 |
| Vision obscured | 2,443 | 2.2 |
| Vehicle defect | 794 | 0.7 |
| Oversized vehicle | 17 | 0.0 |
| Other | 3,444 | 3.1 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 84,216 | | 75% |
| Physical defect | 198 | | |
| Fatigued | 677 | | |
| Apparently asleep | 631 | | |
| Ill | 57 | 3,945 | 4% |
| Under medication | 120 | | |
| Infirmities of age | 557 | | |
| Other | 1,705 | | |
| Unknown | 24,115 | | 21% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 59,456 | | 48% |
| Turning left | 11,455 | | 9% |
| Turning right | 4,589 | | |
| Making U-turn | 249 | | |
| Passing | 1,160 | | |
| Changing lanes | 1,145 | | |
| Merging | 690 | | |
| Parking | 403 | 26,196 | 1% |
| Slowing-stopping | 2,328 | | |
| Backing | 2,722 | | |
| Stopped in traffic | 5,030 | | |
| Parked | 6,299 | | |
| Unattended moving vehicle | 157 | | |
| Other | 1,424 | | |
| Unknown/not stated | 27,274 | | 22% |
| Total no. of vehicles | 124,381 | | |

| Vehicle Defects | | | |
|---|---|---|---|
| None | 53,382 | | 43% |
| Brakes | 431 | | |
| Lights | 124 | | |
| Steering | 95 | | |
| Wipers | 24 | | |
| Tires | 278 | 1,348 | 1% |
| Power failure | 118 | | |
| Trailer hitch | 5 | | |
| Other | 273 | | |
| Unknown/not stated | 69,651 | | 56% |
| Total no. of vehicles | 124,381 | | |

*Based on 112, 276 automobile drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

# Iowa

## THE ENVIRONMENT

## AUTOMOBILES WITH TRAILERS

### Light

### The Roadway

#### Contour

| | | | |
|---|---|---|---|
| Straight, level | 211 | | 52% |
| Straight, up/downgrade | 72 | | |
| Straight, hill crest | 7 | | |
| Curve, level | 19 | | |
| Curve, up/downgrade | 11 | | |
| Curve, hill crest | 0 | 170 | 42% |
| Intersection, level | 49 | | |
| Intersection, up/downgrade | 10 | | |
| Intersection, hill crest | 2 | | |
| Unknown/not stated | 23 | | |
| Total no. of accidents | 404 | | 6% |

#### Fixed Object Struck

16% of all automobiles with trailers involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 5 |
| Underpass/bridge support | 0 |
| Building | 1 |
| Culvert | 2 |
| Curb | 1 |
| Ditch | 16 |
| Island/raised median | 0 |
| Embankment/retaining wall | 2 |
| Fence | 4 |
| Guardrail | 6 |
| Light pole | 6 |
| Sign post | 4 |
| Tree or shrubbery | 2 |
| Utility pole | 4 |
| Other pole or support | 5 |
| Mailbox | 0 |
| Other | 7 |

#### Traffic Controls

| | | | |
|---|---|---|---|
| No controls | 263 | | 65% |
| Traffic signals | 30 | | 7% |
| Stop sign | 26 | | 6% |
| Yield sign | 3 | | |
| No passing zone (marked) | 4 | | |
| R.R. warning sign | 0 | 9 | 2% |
| R.R. automatic signal | 1 | | |
| R.R. crossing gate | 1 | | |
| Other/unknown/not stated | 76 | | 19% |
| Total no. of accidents | 404 | | |

### Weather*

**Figures indicate number of accidents involving automobiles with trailers occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## AUTOMOBILES WITH TRAILERS

**In 1978 there were:**

**0 occupants of automobiles with trailers killed**
**404 accidents involving automobiles with trailers**
**331 collision accidents involving automobiles with trailers**
**73 non-collision accidents involving automobiles with trailers**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 11 | 2.7 |
| Improper passing | 5 | 1.2 |
| Left of center, not passing | 4 | 1.0 |
| Failure to yield | 22 | 5.5 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 17 | 4.2 |
| Drag racing | 0 | 0.0 |
| Improper turn | 2 | 0.5 |
| Improper lane change | 4 | 1.0 |
| Following too close | 3 | 0.7 |
| Improper or no signal | 5 | 1.2 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 1 | 0.2 |
| Reckless driving | 0 | 0.0 |
| Improper backing | 4 | 1.0 |
| Illegal or improper parking | 0 | 0.0 |
| Failure to have control | 31 | 7.7 |
| Lights not on | 1 | 0.2 |
| Physically unfit | 3 | 0.7 |
| Drinking | 4 | 1.0 |
| Inattentive/distracted | 17 | 4.2 |
| Confused/inexperienced | 14 | 3.5 |
| Vision obscured | 8 | 2.0 |
| Vehicle defect | 17 | 4.2 |
| Oversized vehicle | 1 | 0.2 |
| Other | 26 | 6.5 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 319 | | 79% |
| Physical defect | 0 | | |
| Fatigued | 6 | | |
| Apparently asleep | 0 | | |
| Ill | 1 | 13 | 3% |
| Under medication | 0 | | |
| Infirmities of age | 0 | | |
| Other | 6 | | |
| Unknown | 70 | | 17% |

*Based on 402 drivers of automobiles with trailers for which information was available.
**0-2 actions/circumstances listed for each driver.

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 242 | | 58% |
| Turning left | 34 | | 8% |
| Turning right | 11 | | |
| Making U-turn | 3 | | |
| Passing | 4 | | |
| Changing lanes | 10 | | |
| Merging | 2 | | |
| Parking | 2 | 75 | 18% |
| Slowing-stopping | 4 | | |
| Backing | 6 | | |
| Stopped in traffic | 17 | | |
| Parked | 6 | | |
| Unattended moving vehicle | 0 | | |
| Other | 10 | | |
| Unknown/not stated | 67 | | 16% |
| Total no. of vehicles | 418 | | |

| Vehicle Defects | | | |
|---|---|---|---|
| None | 186 | | 44% |
| Brakes | 1 | | |
| Lights | 2 | | |
| Steering | 0 | | |
| Wipers | 0 | 19 | 5% |
| Tires | 4 | | |
| Power failure | 0 | | |
| Trailer hitch | 9 | | |
| Other | 3 | | |
| Unknown/not stated | 213 | | 51% |
| Total no. of vehicles | 418 | | |

# Iowa

## THE ENVIRONMENT

### BUSES

21 43 351 11 6 1

### Light

### The Roadway

**Contour**

| | | | |
|---|---|---|---|
| Straight, level | 209 | | 48% |
| Straight, up/downgrade | 76 | | |
| Straight, hill crest | 5 | | |
| Curve, level | 17 | | |
| Curve, up/downgrade | 7 | | |
| Curve, hill crest | 0 | 205 | 47% |
| Intersection, level | 61 | | |
| Intersection, up/downgrade | 36 | | |
| Intersection, hill crest | 3 | | |
| Unknown/not stated | 19 | | |
| Total no. of accidents | 433 | | 4% |

**Fixed Object Struck**

7% of all buses involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 2 |
| Underpass/bridge support | 0 |
| Building | 2 |
| Culvert | 0 |
| Curb | 0 |
| Ditch | 4 |
| Island/raised median | 0 |
| Embankment/retaining wall | 1 |
| Fence | 1 |
| Guardrail | 0 |
| Light pole | 4 |
| Sign post | 1 |
| Tree or shrubbery | 0 |
| Utility pole | 1 |
| Other pole or support | 1 |
| Mailbox | 1 |
| Other | 11 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 236 | | 55% |
| Traffic signals | 74 | | 17% |
| Stop sign | 40 | | 9% |
| Yield sign | 2 | | |
| No passing zone (marked) | 1 | | |
| R.R. warning sign | 0 | 3 | 1% |
| R.R. automatic signal | 0 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 80 | | 18% |
| Total no. of accidents | 433 | | |

262 3 103 45 5 1 11 17

**Figures indicate number of accidents involving buses occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## BUSES

**In 1978 there were:**
**1 bus occupant killed**
**433 accidents involving buses**
**422 collision accidents involving buses**
**11 non-collision accidents involving buses**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 5 | 1.2 |
| Improper passing | 5 | 1.2 |
| Left of center, not passing | 6 | 1.5 |
| Failure to yield | 23 | 5.6 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 13 | 3.2 |
| Drag racing | 0 | 0.0 |
| Improper turn | 10 | 2.4 |
| Improper lane change | 10 | 2.4 |
| Following too close | 9 | 2.2 |
| Improper or no signal | 4 | 1.0 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 1 | 0.2 |
| Reckless driving | 1 | 0.2 |
| Improper backing | 8 | 1.9 |
| Illegal or improper parking | 1 | 0.2 |
| Failure to have control | 30 | 7.3 |
| Lights not on | 1 | 0.2 |
| Physically unfit | 0 | 0.0 |
| Drinking | 3 | 0.7 |
| Inattentive/distracted | 13 | 3.2 |
| Confused/inexperienced | 8 | 1.9 |
| Vision obscured | 4 | 1.0 |
| Vehicle defect | 8 | 1.9 |
| Oversized vehicle | 3 | 0.7 |
| Other | 15 | 3.6 |

**Driver Condition**

| | | | |
|---|---|---|---|
| Apparently normal | 344 | | 83% |
| Physical defect | 0 | | |
| Fatigued | 1 | | |
| Apparently asleep | 1 | | |
| Ill | 0 | 7 | 2% |
| Under medication | 0 | | |
| Infirmities of age | 1 | | |
| Other | 4 | | |
| Unknown | 61 | | 15% |

*Based on 412 bus drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 204 | | 47% |
| Turning left | 56 | | 13% |
| Turning right | 25 | | |
| Making U-turn | 0 | | |
| Passing | 3 | | |
| Changing lanes | 7 | | |
| Merging | 3 | | |
| Parking | 3 | 96 | 22% |
| Slowing-stopping | 9 | | |
| Backing | 11 | | |
| Stopped in traffic | 22 | | |
| Parked | 8 | | |
| Unattended moving vehicle | 1 | | |
| Other | 4 | | |
| Unknown/not stated | 81 | | 19% |
| Total no. of vehicles | 437 | | |

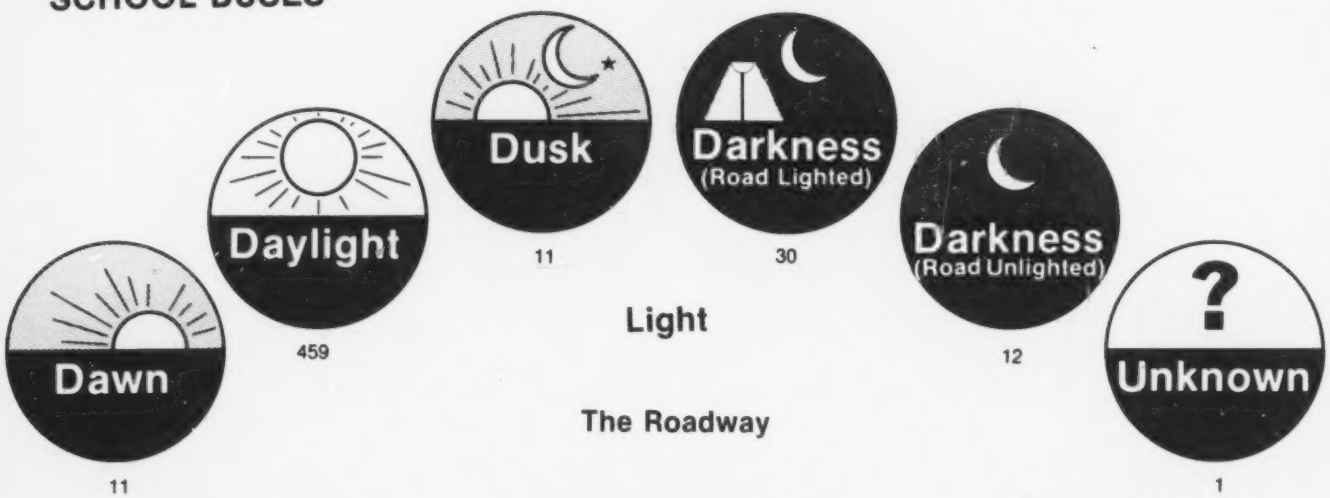
**Vehicle Defects**

| | | | |
|---|---|---|---|
| None | 223 | | 51% |
| Brakes | 4 | | |
| Lights | 1 | | |
| Steering | 0 | | |
| Wipers | 0 | 11 | 3% |
| Tires | 0 | | |
| Power failure | 2 | | |
| Trailer hitch | 1 | | |
| Other | 3 | | |
| Unknown/not stated | 203 | | 46% |
| Total no. of vehicles | 437 | | |

# Iowa

## THE ENVIRONMENT

## SCHOOL BUSES




### Light

### The Roadway

#### Contour

| | | | |
|---|---|---|---|
| Straight, level | 237 | | 45% |
| Straight, up/downgrade | 93 | | |
| Straight, hill crest | 10 | | |
| Curve, level | 23 | | |
| Curve, up/downgrade | 26 | | |
| Curve, hill crest | 3 | 254 | 48% |
| Intersection, level | 66 | | |
| Intersection, up/downgrade | 28 | | |
| Intersection, hill crest | 5 | | |
| Unknown/not stated | 33 | | |
| Total no. of accidents | 524 | | 6% |

#### Fixed Object Struck

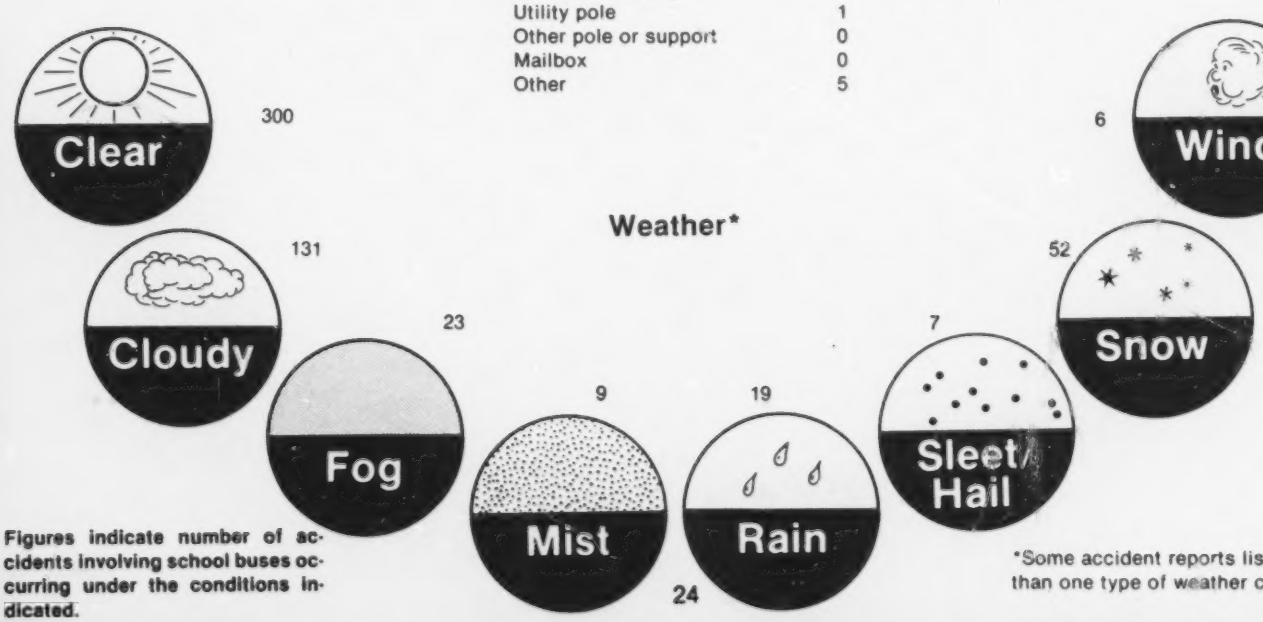
5% of all school buses involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 1 |
| Underpass/bridge support | 0 |
| Building | 0 |
| Culvert | 0 |
| Curb | 0 |
| Ditch | 11 |
| Island/raised median | 0 |
| Embankment/retaining wall | 3 |
| Fence | 2 |
| Guardrail | 1 |
| Light pole | 1 |
| Sign post | 0 |
| Tree or shrubbery | 3 |
| Utility pole | 1 |
| Other pole or support | 0 |
| Mailbox | 0 |
| Other | 5 |

#### Traffic Controls

| | | | |
|---|---|---|---|
| No controls | 314 | | 60% |
| Traffic signals | 35 | | 7% |
| Stop sign | 54 | | 10% |
| Yield sign | 7 | | |
| No passing zone (marked) | 3 | | |
| R.R. warning sign | 2 | 12 | 2% |
| R.R. automatic signal | 0 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 109 | | 21% |
| Total no. of accidents | 524 | | |

### Weather*




**Figures indicate number of accidents involving school buses occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## SCHOOL BUSES

**In 1978 there were:**
**1 school bus occupant killed**
**524 accidents involving school buses**
**507 collision accidents involving school buses**
**17 non-collision accidents involving school buses**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 8 | 1.7 |
| Improper passing | 5 | 1.1 |
| Left of center, not passing | 7 | 1.5 |
| Failure to yield | 50 | 10.9 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 20 | 4.4 |
| Drag racing | 0 | 0.0 |
| Improper turn | 8 | 1.7 |
| Improper lane change | 2 | 0.4 |
| Following too close | 9 | 2.0 |
| Improper or no signal | 2 | 0.4 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 0 | 0.0 |
| Reckless driving | 0 | 0.0 |
| Improper backing | 6 | 1.3 |
| Illegal or improper parking | 4 | 0.9 |
| Failure to have control | 29 | 6.3 |
| Lights not on | 0 | 0.0 |
| Physically unfit | 1 | 0.2 |
| Drinking | 2 | 0.4 |
| Inattentive/distracted | 14 | 3.1 |
| Confused/inexperienced | 5 | 1.1 |
| Vision obscured | 12 | 2.6 |
| Vehicle defect | 6 | 1.3 |
| Oversized vehicle | 3 | 0.7 |
| Other | 17 | 3.7 |

**Driver Condition**

| | | | |
|---|---|---|---|
| Apparently normal | 390 | | 85% |
| Physical defect | 2 | | |
| Fatigued | 0 | | |
| Apparently asleep | 0 | | |
| Ill | 0 | 6 | 1% |
| Under medication | 2 | | |
| Infirmities of age | 0 | | |
| Other | 2 | | |
| Unknown | 62 | | 14% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 214 | | 40% |
| Turning left | 67 | | 13% |
| Turning right | 30 | | |
| Making U-turn | 1 | | |
| Passing | 3 | | |
| Changing lanes | 2 | | |
| Merging | 0 | | |
| Parking | 5 | 153 | 29% |
| Slowing-stopping | 18 | | |
| Backing | 21 | | |
| Stopped in traffic | 30 | | |
| Parked | 28 | | |
| Unattended moving vehicle | 5 | | |
| Other | 10 | | |
| Unknown/not stated | 95 | | 18% |
| Total no. of vehicles | 529 | | |

**Vehicle Defects**

| | | | |
|---|---|---|---|
| None | 278 | | 53% |
| Brakes | 1 | | |
| Lights | 2 | | |
| Steering | 0 | | |
| Wipers | 0 | 7 | 1% |
| Tires | 1 | | |
| Power failure | 0 | | |
| Trailer hitch | 0 | | |
| Other | 3 | | |
| Unknown/not stated | 244 | | 46% |
| Total no. of vehicles | 529 | | |

*based on 458 school bus drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

# Iowa

## THE ENVIRONMENT

## BICYCLES

27 36 452 13 4 0

### Light

### The Roadway

**Contour**

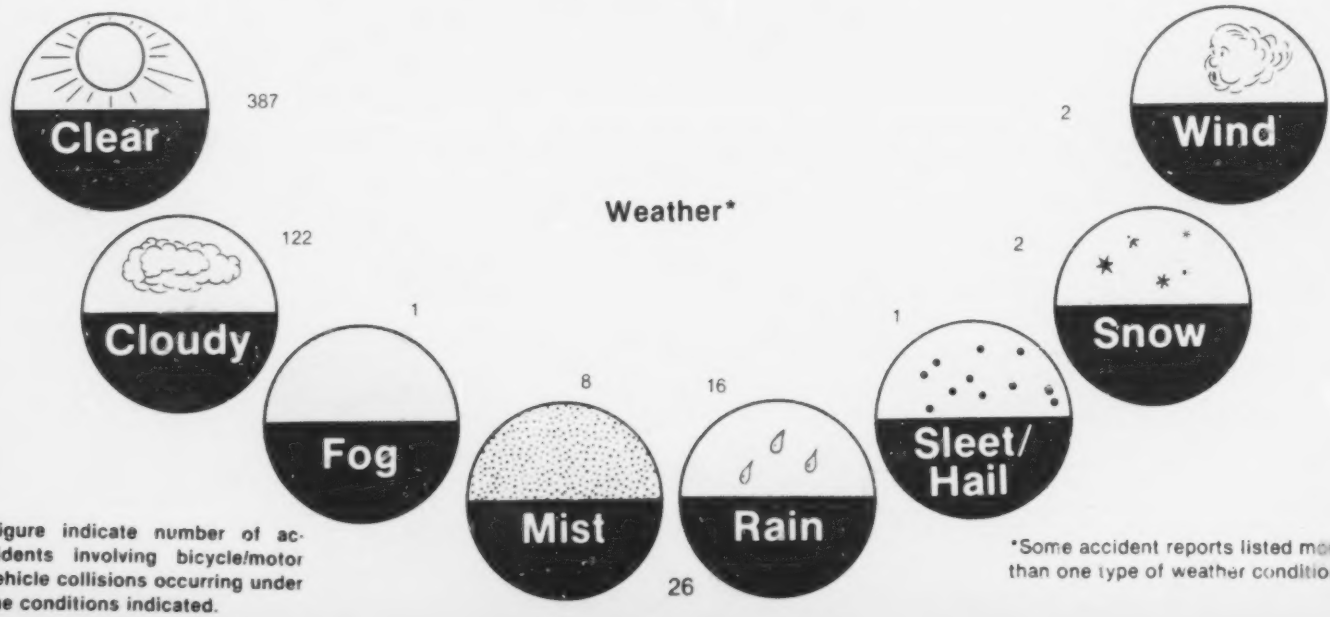
| | | | |
|---|---|---|---|
| Straight, level | 285 | | 54% |
| Straight, up/downgrade | 85 | | |
| Straight, hill crest | 4 | | |
| Curve, level | 8 | | |
| Curve, up/downgrade | 9 | | |
| Curve, hill crest | 2 | 225 | 42% |
| Intersection, level | 72 | | |
| Intersection, up/downgrade | 43 | | |
| Intersection, hill crest | 2 | | |
| Unknown/not stated | 22 | | |
| Total no. of accidents | 532 | | 4% |

**Motor Vehicle Involved**

| | |
|---|---|
| Automobile | 415 |
| Automobile with trailer | 1 |
| Panel truck | 11 |
| Pickup | 53 |
| Pickup with trailer | 1 |
| Pickup with camper | 3 |
| Straight truck | 4 |
| Tractor with trailer | 2 |
| Bus | 2 |
| School bus | 2 |
| Farm vehicle | 3 |
| Motorcycle | 21 |
| Recreational vehicle | 1 |
| Other | 11 |
| Unknown | 2 |
| Total no. of vehicles | 532 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 371 | | 70% |
| Traffic signals | 40 | | 8% |
| Stop sign | 85 | | 16% |
| Yield sign | 5 | | |
| No passing zone (marked) | 4 | | |
| R.R. warning sign | 0 | 9 | 2% |
| R.R. automatic signal | 0 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 27 | | 5% |
| Total no. of accidents | 532 | | |




387 2 122 2 1 1 8 16

### Weather*

**Figure indicate number of accidents involving bicycle/motor vehicle collisions occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## BICYCLES

**In 1978 there were:**
- **5 bicycle riders killed**
- **532 bicycle/motor vehicle accidents**

## THE DRIVER* OF MOTOR VEHICLE INVOLVED

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 3 | 0.6 |
| Improper passing | 3 | 0.6 |
| Left of center, not passing | 2 | 0.4 |
| Failure to yield | 55 | 10.6 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 4 | 0.8 |
| Drag racing | 0 | 0.0 |
| Improper turn | 4 | 0.8 |
| Improper lane change | 0 | 0.0 |
| Following too close | 3 | 0.6 |
| Improper or no signal | 1 | 0.2 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 0 | 0.0 |
| Reckless driving | 3 | 0.6 |
| Improper backing | 3 | 0.6 |
| Illegal or improper parking | 0 | 0.0 |
| Failure to have control | 10 | 1.9 |
| Lights not on | 0 | 0.0 |
| Physically unfit | 0 | 0.0 |
| Drinking | 3 | 0.6 |
| Inattentive/distracted | 20 | 3.9 |
| Confused/inexperienced | 9 | 1.7 |
| Vision obscured | 30 | 5.8 |
| Vehicle defect | 2 | 0.4 |
| Oversized vehicle | 0 | 0.0 |
| Other | 9 | 1.7 |

**Driver Condition**

| | | | |
|---|---|---|---|
| Apparently normal | 454 | | 88% |
| Physical defect | 1 | | |
| Fatigued | 0 | | |
| Apparently asleep | 0 | | |
| Ill | 0 | 9 | 2% |
| Under medication | 0 | | |
| Infirmities of age | 3 | | |
| Other | 5 | | |
| Unknown | 55 | | 11% |

*Based on 518 motor vehicle drivers for which information was available.

**0-2 actions/circumstances listed for each driver.

## THE MACHINE (MOTOR VEHICLE INVOLVED)

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 348 | | 65% |
| Turning left | 60 | | 11% |
| Turning right | 39 | | |
| Making U-turn | 0 | | |
| Passing | 11 | | |
| Changing lanes | 0 | | |
| Merging | 3 | | |
| Parking | 2 | 88 | 17% |
| Slowing-stopping | 5 | | |
| Backing | 14 | | |
| Stopped in traffic | 5 | | |
| Parked | 3 | | |
| Unattended moving vehicle | 0 | | |
| Other | 6 | | |
| Unknown/not stated | 36 | | 7% |
| Total no. of vehicles | 532 | | |

**Vehicle Defects**

| | | | |
|---|---|---|---|
| None | 310 | | 58% |
| Brakes | 4 | | |
| Lights | 0 | | |
| Steering | 0 | | |
| Wipers | 0 | 6 | 1% |
| Tires | 0 | | |
| Power failure | 0 | | |
| Trailer hitch | 0 | | |
| Other | 2 | | |
| Unknown/not stated | 216 | | 41% |
| Total no. of vehicles | 532 | | |

# Iowa

## THE ENVIRONMENT

## MOTORCYCLES

### Light

### The Roadway

**Contour**

| | | | |
|---|---|---|---|
| Straight, level | 1,234 | | 49% |
| Straight, up/downgrade | 355 | | |
| Straight, hill crest | 34 | | |
| Curve, level | 187 | | |
| Curve, up/downgrade | 113 | | |
| Curve, hill crest | 12 | 1,194 | 47% |
| Intersection, level | 370 | | |
| Intersection, up/downgrade | 113 | | |
| Intersection, hill crest | 10 | | |
| Unknown/not stated | 88 | | |
| Total no. of accidents | 2,516 | | 3% |

**Fixed Object Struck**

12% of all motorcycles involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 7 |
| Underpass/bridge support | 1 |
| Building | 6 |
| Culvert | 7 |
| Curb | 58 |
| Ditch | 63 |
| Island/raised median | 16 |
| Embankment/retaining wall | 11 |
| Fence | 17 |
| Guardrail | 12 |
| Light pole | 9 |
| Sign post | 20 |
| Tree or shrubbery | 13 |
| Utility pole | 9 |
| Other pole or support | 8 |
| Mailbox | 4 |
| Other | 45 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 1,733 | | 69% |
| Traffic signals | 234 | | 9% |
| Stop sign | 126 | | 5% |
| Yield sign | 9 | | |
| No passing zone (marked) | 18 | | |
| R.R. warning sign | 3 | 36 | 1% |
| R.R. automatic signal | 5 | | |
| R.R. crossing gate | 1 | | |
| Other/unknown/not stated | 387 | | 15% |
| Total no. of accidents | 2,516 | | |

### Weather*

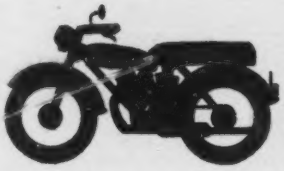
**Figures indicate number of accidents involving motorcycles occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## MOTORCYCLES

**In 1978 there were:**
**75 motorcycle operators or passengers killed (includes 1 known moped rider fatality)**
**2,516 accidents involving motorcycles**
**1,969 collision accidents involving motorcycles**
**547 non-collision accidents involving motorcycles**



## THE OPERATOR*

| Operator Action/ Contributing Circumstances** | Number of Operators | % of Operators Involved in Accidents |
|---|---|---|
| Ran traffic control | 53 | 2.1 |
| Improper passing | 73 | 2.9 |
| Left of center, not passing | 29 | 1.2 |
| Failure to yield | 106 | 4.3 |
| Wrong way, one-way road | 2 | 0.1 |
| Speed too fast | 196 | 7.9 |
| Drag racing | 1 | 0.0 |
| Improper turn | 14 | 0.6 |
| Improper lane change | 11 | 0.4 |
| Following too close | 53 | 2.1 |
| Improper or no signal | 15 | 0.6 |
| Disregarded R.R. signal | 2 | 0.1 |
| Disregarded warning signal | 8 | 0.3 |
| Reckless driving | 27 | 1.1 |
| Improper backing | 1 | 0.0 |
| Illegal or improper parking | 3 | 0.1 |
| Failure to have control | 408 | 16.4 |
| Lights not on | 9 | 0.4 |
| Physically unfit | 7 | 0.3 |
| Drinking | 52 | 2.1 |
| Inattentive/distracted | 116 | 4.7 |
| Confused/inexperienced | 137 | 5.5 |
| Vision obscured | 42 | 1.7 |
| Vehicle defect | 52 | 2.1 |
| Oversized vehicle | 0 | 0.0 |
| Other | 157 | 6.3 |

| Operator Condition | | | |
|---|---|---|---|
| Apparently normal | 1,934 | | 78% |
| Physical defect | 6 | | |
| Fatigued | 11 | | |
| Apparently asleep | 2 | | |
| Ill | 0 | 68 | 3% |
| Under medication | 0 | | |
| Infirmities of age | 1 | | |
| Other | 48 | | |
| Unknown | 492 | | 20% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 1,766 | | 69% |
| Turning left | 176 | | 7% |
| Turning right | 82 | | |
| Making U-turn | 13 | | |
| Passing | 64 | | |
| Changing lanes | 14 | | |
| Merging | 17 | | |
| Parking | 2 | 316 | 12% |
| Slowing-stopping | 16 | | |
| Backing | 2 | | |
| Stopped in traffic | 32 | | |
| Parked | 22 | | |
| Unattended moving vehicle | 0 | | |
| Other | 52 | | |
| Unknown/not stated | 319 | | 12% |
| Total no. of vehicles | 2,577 | | |

| Vehicle Defects | | | |
|---|---|---|---|
| None | 1,245 | | 48% |
| Brakes | 17 | | |
| Lights | 10 | | |
| Steering | 7 | | |
| Tires | 11 | 66 | 3% |
| Power failure | 3 | | |
| Trailer hitch | 0 | | |
| Other | 18 | | |
| Unknown/not stated | 1,266 | | 49% |
| Total no. of vehicles | 2,577 | | |

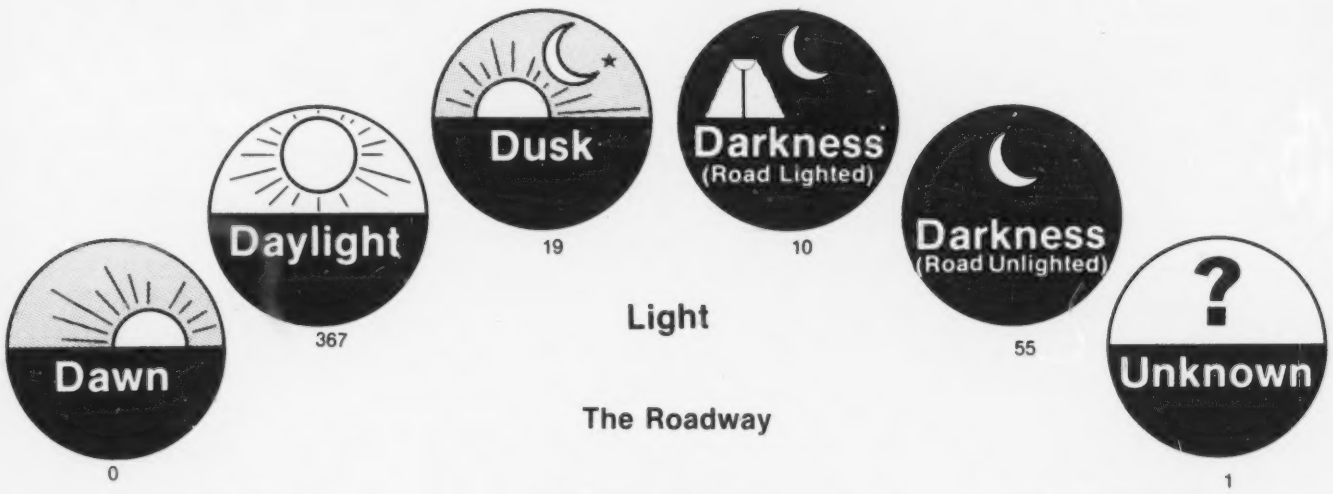
*Based on 2,494 motorcycle operators for which information was available.

**0-2 actions/circumstances listed for each operator.

# Iowa

## FARM VEHICLES

## THE ENVIRONMENT




19 10 367 55 0 1

### Light

### The Roadway

**Contour**

| | | | |
|---|---|---|---|
| Straight, level | 233 | | 52% |
| Straight, up/downgrade | 118 | | |
| Straight, hill crest | 20 | | |
| Curve, level | 11 | | |
| Curve, up/downgrade | 11 | | |
| Curve, hill crest | 0 | 204 | 45% |
| Intersection, level | 27 | | |
| Intersection, up/downgrade | 15 | | |
| Intersection, hill crest | 2 | | |
| Unknown/not stated | 15 | | |
| Total no. of accidents | 452 | | 3% |

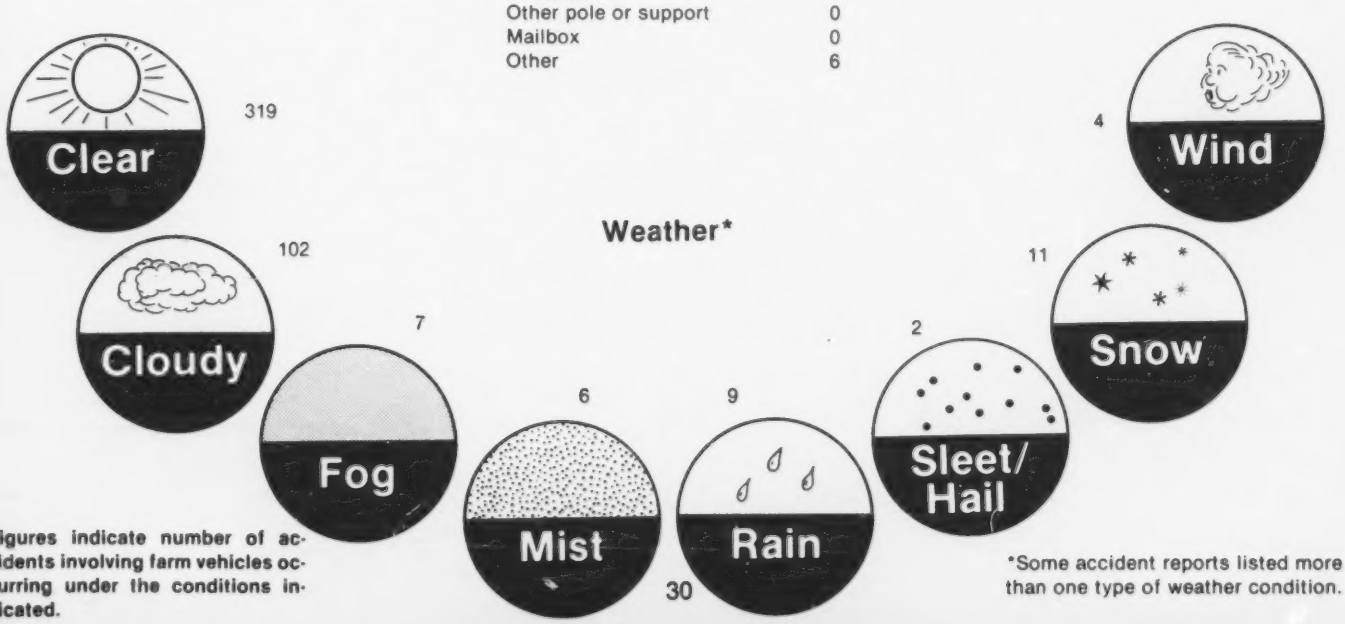
**Fixed Object Struck**

6% of all farm vehicles involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 3 |
| Underpass/bridge support | 1 |
| Building | 0 |
| Culvert | 1 |
| Curb | 1 |
| Ditch | 12 |
| Island/raised median | 0 |
| Embankment/retaining wall | 0 |
| Fence | 1 |
| Guardrail | 1 |
| Light pole | 0 |
| Sign post | 1 |
| Tree or shrubbery | 0 |
| Utility pole | 1 |
| Other pole or support | 0 |
| Mailbox | 0 |
| Other | 6 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 322 | | 71% |
| Traffic signals | 4 | | 1% |
| Stop sign | 21 | | 5% |
| Yield sign | 1 | | |
| No passing zone (marked) | 18 | | |
| R.R. warning sign | 1 | 22 | 5% |
| R.R. automatic signal | 2 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 83 | | 18% |
| Total no. of accidents | 452 | | |




319 4 102 11 7 2 6 9

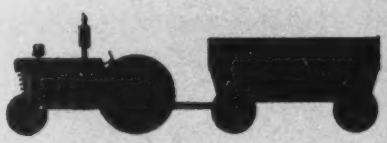
### Weather*

**Figures indicate number of accidents involving farm vehicles occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## FARM VEHICLES



**In 1978 there were:**
**7 farm vehicle occupants killed**
**452 accidents involving farm vehicles**
**395 collision accidents involving farm vehicles**
**57 non-collision accidents involving farm vehicles**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 2 | 0.5 |
| Improper passing | 1 | 0.2 |
| Left of center, not passing | 14 | 3.3 |
| Failure to yield | 39 | 9.3 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 4 | 1.0 |
| Drag racing | 1 | 0.2 |
| Improper turn | 14 | 3.3 |
| Improper lane change | 2 | 0.5 |
| Following too close | 0 | 0.0 |
| Improper or no signal | 42 | 10.0 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 0 | 0.0 |
| Reckless driving | 1 | 0.2 |
| Improper backing | 3 | 0.7 |
| Illegal or improper parking | 2 | 0.5 |
| Failure to have control | 10 | 2.4 |
| Lights not on | 3 | 0.7 |
| Physically unfit | 2 | 0.5 |
| Drinking | 4 | 1.0 |
| Inattentive/distracted | 18 | 4.3 |
| Confused/inexperienced | 3 | 0.7 |
| Vision obscured | 15 | 3.6 |
| Vehicle defect | 16 | 3.8 |
| Oversized vehicle | 8 | 1.9 |
| Other | 21 | 5.0 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 358 | | 85% |
| Physical defect | 2 | | |
| Fatigued | 0 | | |
| Apparently asleep | 3 | | |
| Ill | 1 | 10 | 2% |
| Under medication | 0 | | |
| Infirmities of age | 1 | | |
| Other | 3 | | |
| Unknown | 53 | | 13% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 204 | | 45% |
| Turning left | 115 | | 25% |
| Turning right | 28 | | |
| Making U-turn | 4 | | |
| Passing | 6 | | |
| Changing lanes | 3 | | |
| Merging | 2 | | |
| Parking | 1 | 72 | 16% |
| Slowing-stopping | 1 | | |
| Backing | 6 | | |
| Stopped in traffic | 5 | | |
| Parked | 8 | | |
| Unattended moving vehicle | 0 | | |
| Other | 8 | | |
| Unknown/not stated | 64 | | 14% |
| Total no. of vehicles | 455 | | |

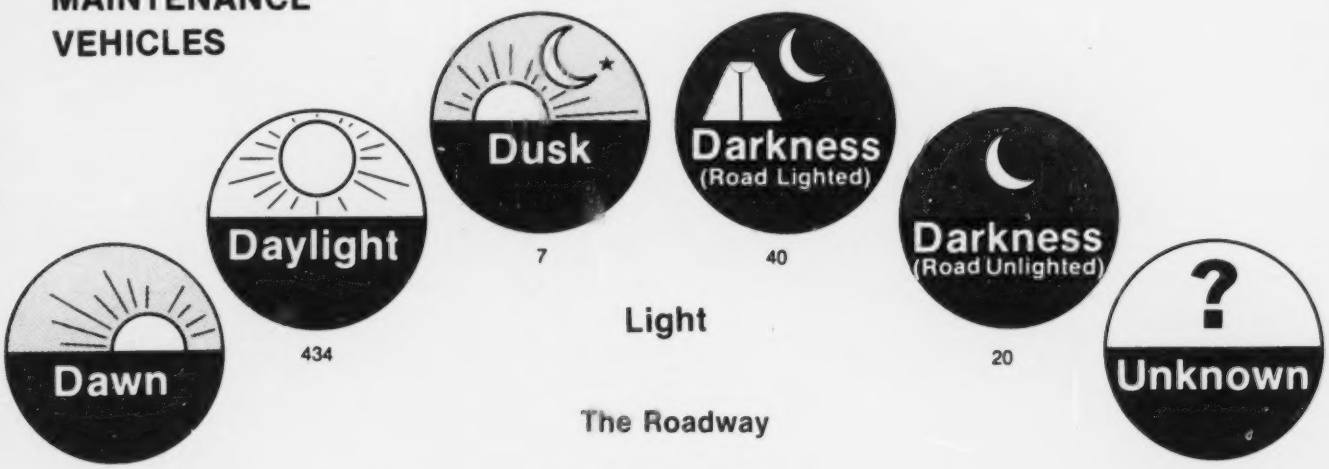
| Vehicle Defects | | | |
|---|---|---|---|
| None | 243 | | 53% |
| Brakes | 3 | | |
| Lights | 8 | | |
| Steering | 2 | | |
| Wipers | 0 | 18 | 4% |
| Tires | 1 | | |
| Power failure | 1 | | |
| Trailer hitch | 1 | | |
| Other | 2 | | |
| Unknown/not stated | 194 | | 43% |
| Total no. of vehicles | 455 | | |

*Based on 421 farm vehicle drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

# Iowa

## THE ENVIRONMENT

### MAINTENANCE VEHICLES




7 40 434 20 3 2

## Light

## The Roadway

### Contour

| | | | |
|---|---|---|---|
| Straight, level | 271 | | 54% |
| Straight, up/downgrade | 97 | | |
| Straight, hill crest | 10 | | |
| Curve, level | 18 | | |
| Curve, up/downgrade | 19 | | |
| Curve, hill crest | 0 | 216 | 43% |
| Intersection, level | 52 | | |
| Intersection, up/downgrade | 17 | | |
| Intersection, hill crest | 3 | | |
| Unknown/not stated | 19 | | |
| Total no. of accidents | 506 | | 4% |

### Fixed Object Struck

6% of all maintenance vehicles involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 3 |
| Underpass/bridge support | 0 |
| Building | 0 |
| Culvert | 0 |
| Curb | 4 |
| Ditch | 5 |
| Island/raised median | 0 |
| Embankment/retaining wall | 0 |
| Fence | 1 |
| Guardrail | 1 |
| Light pole | 0 |
| Sign post | 1 |
| Tree or shrubbery | 1 |
| Utility pole | 3 |
| Other pole or support | 3 |
| Mailbox | 1 |
| Other | 6 |

### Traffic Controls

| | | | |
|---|---|---|---|
| No controls | 319 | | 63% |
| Traffic signals | 31 | | 6% |
| Stop sign | 35 | | 7% |
| Yield sign | 5 | | |
| No passing zone (marked) | 8 | | |
| R.R. warning sign | 1 | 14 | 3% |
| R.R. automatic signal | 0 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 107 | | 21% |
| Total no. of accidents | 506 | | |

282 15 136 76 9 7 6 17 32

## Weather*

**Figures indicate number of accidents involving maintenance vehicles occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## MAINTENANCE VEHICLES

**In 1978 there were:**

**1 maintenance vehicle occupant killed**
**506 accidents involving maintenance vehicles**
**465 collision accidents involving maintenance vehicles**
**41 non-collision accidents involving maintenance vehicles**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 5 | 1.1 |
| Improper passing | 6 | 1.3 |
| Left of center, not passing | 8 | 1.7 |
| Failure to yield | 29 | 6.1 |
| Wrong way, one-way road | 1 | 0.2 |
| Speed too fast | 6 | 1.3 |
| Drag racing | 0 | 0.0 |
| Improper turn | 5 | 1.1 |
| Improper lane change | 6 | 1.3 |
| Following too close | 8 | 1.7 |
| Improper or no signal | 3 | 0.6 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 1 | 0.2 |
| Reckless driving | 0 | 0.0 |
| Improper backing | 30 | 6.4 |
| Illegal or improper parking | 3 | 0.6 |
| Failure to have control | 15 | 3.2 |
| Lights not on | 1 | 0.2 |
| Physically unfit | 0 | 0.0 |
| Drinking | 0 | 0.0 |
| Inattentive/distracted | 22 | 4.7 |
| Confused/inexperienced | 7 | 1.5 |
| Vision obscured | 21 | 4.4 |
| Vehicle defect | 15 | 3.2 |
| Oversized vehicle | 9 | 1.9 |
| Other | 27 | 5.7 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 402 | | 85% |
| Physical defect | 1 | | |
| Fatigued | 1 | | |
| Apparently asleep | 0 | | |
| Ill | 0 | 5 | 1% |
| Under medication | 0 | | |
| Infirmities of age | 1 | | |
| Other | 2 | | |
| Unknown | 65 | | 14% |

## THE MACHINE

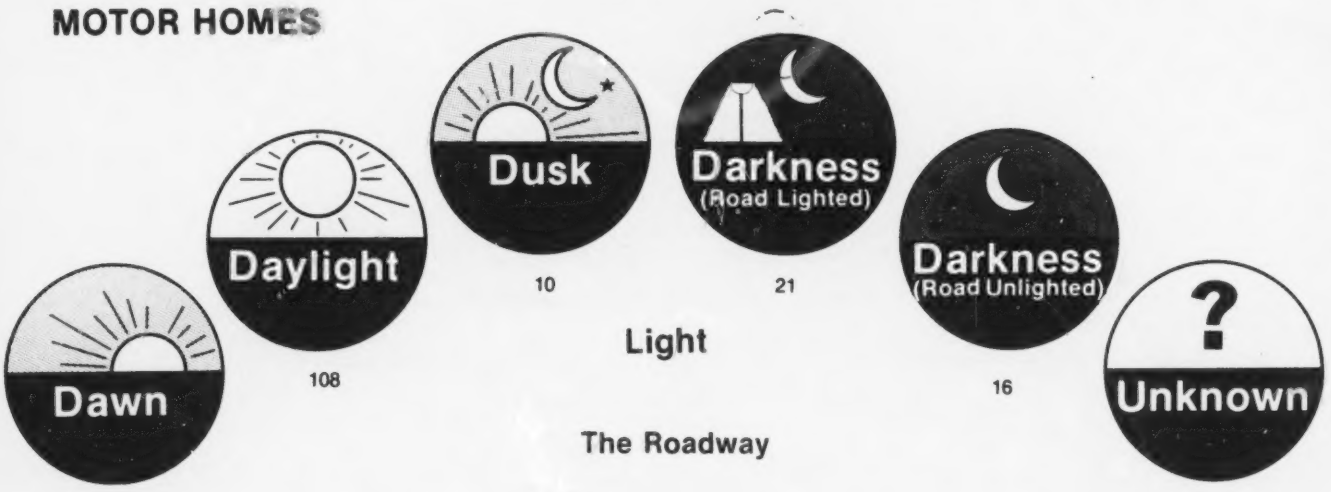
| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 229 | | 45% |
| Turning left | 39 | | 8% |
| Turning right | 21 | | |
| Making U-turn | 2 | | |
| Passing | 4 | | |
| Changing lanes | 5 | | |
| Merging | 3 | | |
| Parking | 2 | 163 | 32% |
| Slowing-stopping | 10 | | |
| Backing | 60 | | |
| Stopped in traffic | 21 | | |
| Parked | 11 | | |
| Unattended moving vehicle | 2 | | |
| Other | 22 | | |
| Unknown/not stated | 82 | | 16% |
| Total no. of vehicles | 513 | | |

| Vehicle Defects | | | |
|---|---|---|---|
| None | 279 | | 54% |
| Brakes | 5 | | |
| Lights | 3 | | |
| Steering | 3 | | |
| Wipers | 0 | 17 | 3% |
| Tires | 1 | | |
| Power failure | 1 | | |
| Trailer hitch | 0 | | |
| Other | 4 | | |
| Unknown/not stated | 217 | | 42% |
| Total no. of vehicles | 513 | | |

*Based on 472 maintenance vehicle drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

## THE ENVIRONMENT

### MOTOR HOMES




### Light

### The Roadway

#### Contour

| | | | |
|---|---|---|---|
| Straight, level | 85 | | 53% |
| Straight, up/downgrade | 28 | | |
| Straight, hill crest | 0 | | |
| Curve, level | 7 | | |
| Curve, up/downgrade | 4 | | |
| Curve, hill crest | 0 | 67 | 42% |
| Intersection, level | 23 | | |
| Intersection, up/downgrade | 5 | | |
| Intersection, hill crest | 0 | | |
| Unknown/not stated | 7 | | |
| Total no. of accidents | 159 | | 4% |

#### Fixed Object Struck

9% of all motor homes involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 2 |
| Underpass/bridge support | 0 |
| Building | 0 |
| Culvert | 0 |
| Curb | 0 |
| Ditch | 4 |
| Island/raised median | 0 |
| Embankment/retaining wall | 0 |
| Fence | 0 |
| Guardrail | 2 |
| Light pole | 0 |
| Sign post | 2 |
| Tree or shrubbery | 0 |
| Utility pole | 1 |
| Other pole or support | 0 |
| Mailbox | 0 |
| Other | 4 |

#### Traffic Controls

| | | | |
|---|---|---|---|
| No controls | 94 | | 59% |
| Traffic signals | 16 | | 10% |
| Stop sign | 15 | | 9% |
| Yield sign | 1 | | |
| No passing zone (marked) | 1 | | |
| R.R. warning sign | 0 | 3 | 2% |
| R.R. automatic signal | 1 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 31 | | 20% |
| Total no. of accidents | 159 | | |

### Weather*

**Figures indicate number of accidents involving motor homes occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## MOTOR HOMES

**In 1978 there were:**

**1 motor home occupant killed**
**159 accidents involving motor homes**
**152 collision accidents involving motor homes**
**7 non-collision accidents involving motor homes**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 5 | 3.5 |
| Improper passing | 0 | 0.0 |
| Left of center, not passing | 0 | 0.0 |
| Failure to yield | 12 | 8.5 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 1 | 0.7 |
| Drag racing | 0 | 0.0 |
| Improper turn | 1 | 0.7 |
| Improper lane change | 3 | 2.1 |
| Following too close | 3 | 2.1 |
| Improper or no signal | 0 | 0.0 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 0 | 0.0 |
| Reckless driving | 0 | 0.0 |
| Improper backing | 2 | 1.4 |
| Illegal or improper parking | 0 | 0.0 |
| Failure to have control | 13 | 9.2 |
| Lights not on | 0 | 0.0 |
| Physically unfit | 0 | 0.0 |
| Drinking | 2 | 1.4 |
| Inattentive/distracted | 9 | 6.4 |
| Confused/inexperienced | 2 | 1.4 |
| Vision obscured | 4 | 2.8 |
| Vehicle defect | 1 | 0.7 |
| Oversized vehicle | 1 | 0.7 |
| Other | 5 | 3.5 |

**Driver Condition**

| | | | |
|---|---|---|---|
| Apparently normal | 118 | | 84% |
| Physical defect | 0 | | |
| Fatigued | 2 | | |
| Apparently asleep | 1 | | |
| Ill | 0 | 3 | 2% |
| Under medication | 0 | | |
| Infirmities of age | 0 | | |
| Other | 0 | | |
| Unknown | 20 | | 14% |

*Based on 141 motor home drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 81 | | 51% |
| Turning left | 14 | | 9% |
| Turning right | 3 | | |
| Making U-turn | 0 | | |
| Passing | 0 | | |
| Changing lanes | 2 | | |
| Merging | 1 | | |
| Parking | 1 | 36 | 23% |
| Slowing-stopping | 4 | | |
| Backing | 5 | | |
| Stopped in traffic | 8 | | |
| Parked | 9 | | |
| Unattended moving vehicle | 1 | | |
| Other | 2 | | |
| Unknown/not stated | 28 | | 18% |
| Total no. of vehicles | 159 | | |

**Vehicle Defects**

| | | | |
|---|---|---|---|
| None | 87 | | 55% |
| Brakes | 1 | | |
| Lights | 0 | | |
| Steering | 0 | | |
| Wipers | 0 | 3 | 2% |
| Tires | 0 | | |
| Power failure | 0 | | |
| Trailer hitch | 0 | | |
| Other | 2 | | |
| Unknown/not stated | 69 | | 43% |
| Total no. of vehicles | 159 | | |

## THE ENVIRONMENT

## RECREATIONAL VEHICLES

### Light

### The Roadway

**Contour**

| | | | |
|---|---|---|---|
| Straight, level | 141 | | 49% |
| Straight, up/downgrade | 52 | | |
| Straight, hill crest | 10 | | |
| Curve, level | 16 | | |
| Curve, up/downgrade | 9 | | |
| Curve, hill crest | 1 | 128 | 44% |
| Intersection, level | 30 | | |
| Intersection, up/downgrade | 7 | | |
| Intersection, hill crest | 3 | | |
| Unknown/not stated | 20 | | |
| Total no. of accidents | 289 | | 7% |

**Fixed Object Struck**

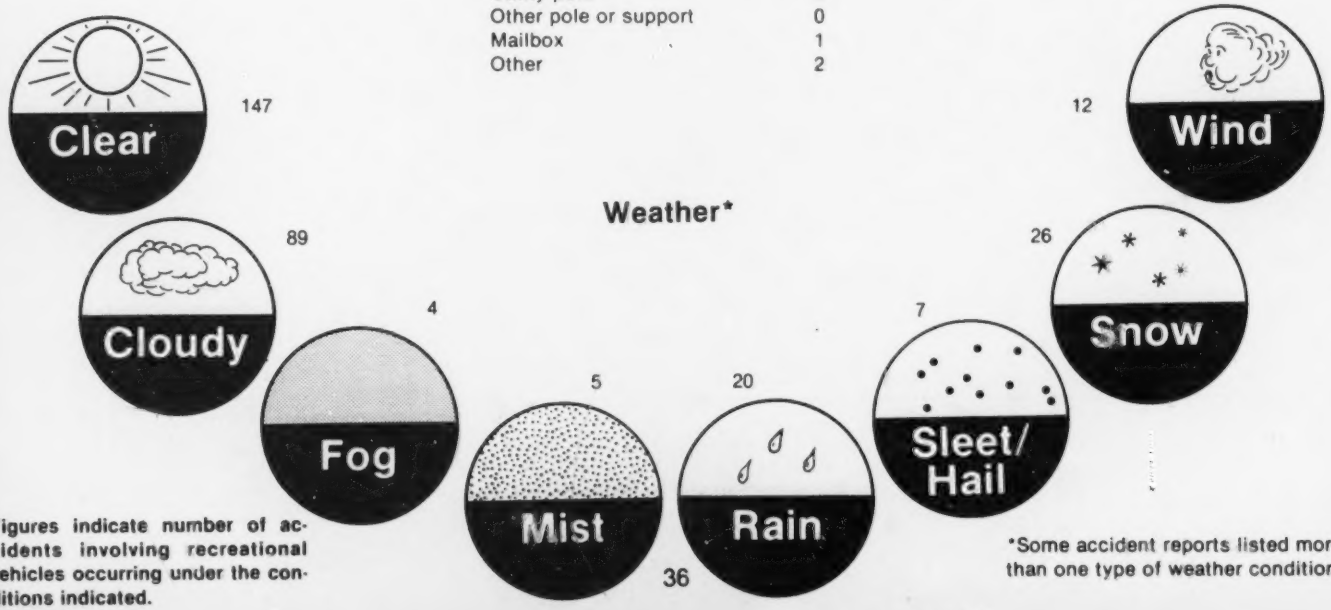
11% of all recreational vehicles involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 1 |
| Underpass/bridge support | 0 |
| Building | 2 |
| Culvert | 1 |
| Curb | 12 |
| Ditch | 10 |
| Island/raised median | 0 |
| Embankment/retaining wall | 0 |
| Fence | 2 |
| Guardrail | 4 |
| Light pole | 1 |
| Sign post | 1 |
| Tree or shrubbery | 2 |
| Utility pole | 3 |
| Other pole or support | 0 |
| Mailbox | 1 |
| Other | 2 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 181 | | 63% |
| Traffic signals | 25 | | 9% |
| Stop sign | 18 | | 6% |
| Yield sign | 3 | | |
| No passing zone (marked) | 2 | | |
| R.R. warning sign | 1 | 6 | 2% |
| R.R. automatic signal | 0 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 59 | | 20% |
| Total no. of accidents | 289 | | |

### Weather*




**Figures indicate number of accidents involving recreational vehicles occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## RECREATIONAL VEHICLES

**In 1978 there were:**

**3 recreational vehicle occupants killed**
**289 accidents involving recreational vehicles**
**253 collision accidents involving recreational vehicles**
**36 non-collision accidents involving recreational vehicles**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 9 | 3.4 |
| Improper passing | 1 | 0.4 |
| Left of center, not passing | 5 | 1.9 |
| Failure to yield | 22 | 8.3 |
| Wrong way, one-way road | 1 | 0.4 |
| Speed too fast | 19 | 7.2 |
| Drag racing | 1 | 0.4 |
| Improper turn | 4 | 1.5 |
| Improper lane change | 6 | 2.3 |
| Following too close | 6 | 2.3 |
| Improper or no signal | 0 | 0.0 |
| Disregarded R.R. signal | 1 | 0.4 |
| Disregarded warning signal | 0 | 0.0 |
| Reckless driving | 1 | 0.4 |
| Improper backing | 3 | 1.1 |
| Illegal or improper parking | 0 | 0.0 |
| Failure to have control | 39 | 14.8 |
| Lights not on | 0 | 0.0 |
| Physically unfit | 2 | 0.8 |
| Drinking | 5 | 1.9 |
| Inattentive/distracted | 19 | 7.2 |
| Confused/inexperienced | 4 | 1.5 |
| Vision obscured | 8 | 3.0 |
| Vehicle defect | 0 | 0.0 |
| Oversized vehicle | 0 | 0.0 |
| Other | 19 | 7.2 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 196 | | 74% |
| Physical defect | 0 | | |
| Fatigued | 2 | | |
| Apparently asleep | 2 | | |
| Ill | 0 | 7 | 3% |
| Under medication | 0 | | |
| Infirmities of age | 0 | | |
| Other | 3 | | |
| Unknown | 61 | | 23% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 149 | | 51% |
| Turning left | 26 | | 9% |
| Turning right | 12 | | |
| Making U-turn | 0 | | |
| Passing | 2 | | |
| Changing lanes | 4 | | |
| Merging | 1 | | |
| Parking | 0 | 66 | 23% |
| Slowing-stopping | 7 | | |
| Backing | 6 | | |
| Stopped in traffic | 12 | | |
| Parked | 15 | | |
| Unattended moving vehicle | 0 | | |
| Other | 7 | | |
| Unknown/not stated | 50 | | 17% |
| Total no. of vehicles | 291 | | |

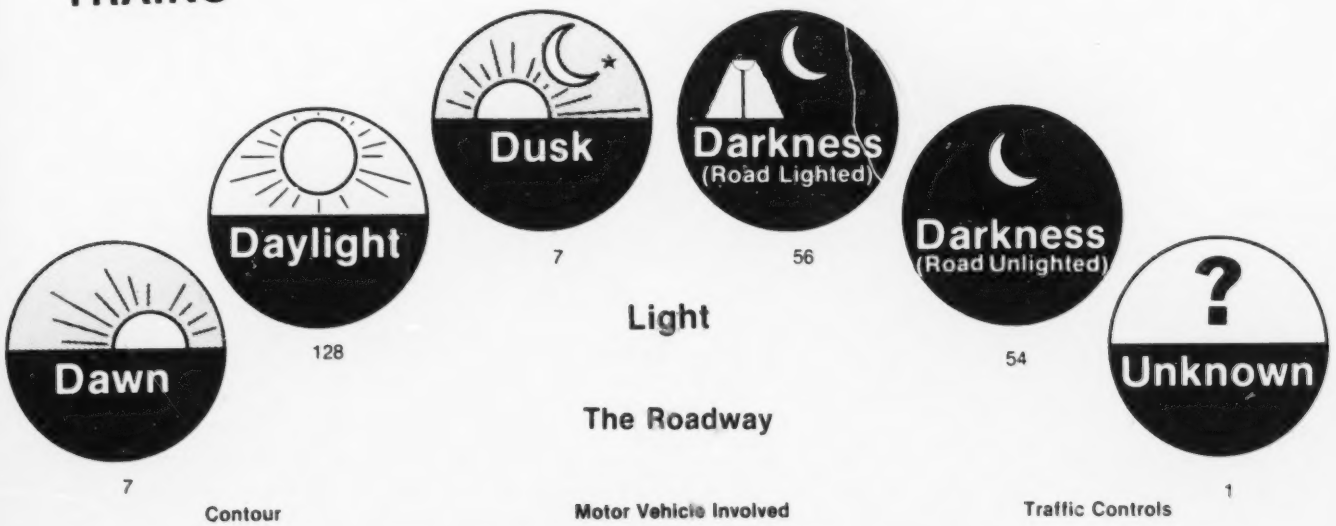
| Vehicle Defects | | | |
|---|---|---|---|
| None | 121 | | 42% |
| Brakes | 0 | | |
| Lights | 0 | | |
| Steering | 0 | | |
| Wipers | 0 | 0 | 0% |
| Tires | 0 | | |
| Power failure | 0 | | |
| Trailer hitch | 0 | | |
| Other | 0 | | |
| Unknown/not stated | 170 | | 58% |
| Total no. of vehicles | 291 | | |

*Based on 264 recreational vehicle drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

# Iowa

## THE ENVIRONMENT

## TRAINS




7 128 7 56 54 1

### Light

### The Roadway

**Contour**

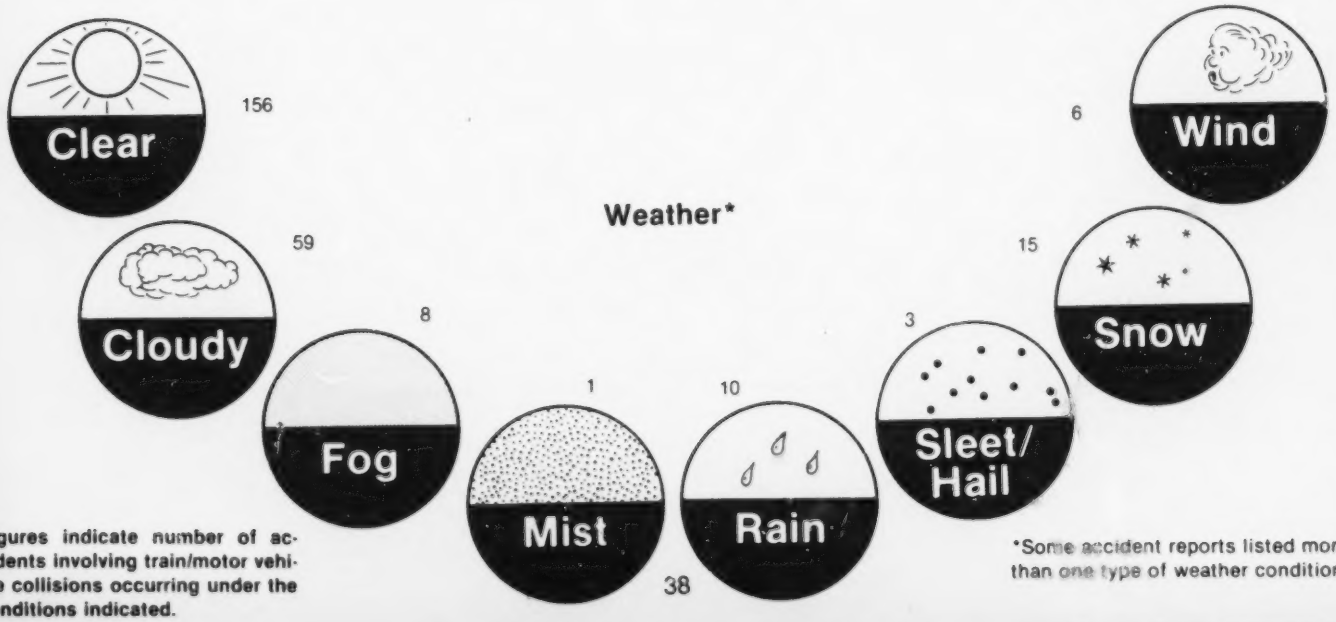
| | | | |
|---|---|---|---|
| Straight, level | 156 | | 62% |
| Straight, up/downgrade | 45 | | |
| Straight, hill crest | 4 | | |
| Curve, level | 6 | | |
| Curve, up/downgrade | 3 | | |
| Curve, hill crest | 0 | 88 | 35% |
| Intersection, level | 20 | | |
| Intersection, up/downgrade | 9 | | |
| Intersection, hill crest | 1 | | |
| Unknown/not stated | 9 | | |
| Total no. of accidents | 253 | | 4% |

**Motor Vehicle Involved**

| | | | |
|---|---|---|---|
| Automobile | 164 | | 56% |
| Panel truck | 8 | | |
| Pickup | 42 | | |
| Pickup with trailer | 1 | | |
| Straight truck | 9 | | |
| Truck tractor | 7 | 98 | 34% |
| Farm vehicle/equipment | 3 | | |
| Motorcycle | 4 | | |
| Recreational vehicle | 1 | | |
| Other | 8 | | |
| Unknown | 29 | | |
| Total no. of vehicles | 291 | | 10% |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 49 | | 19% |
| Traffic signals | 3 | | 2% |
| Stop sign | 12 | | 5% |
| Yield sign | 2 | | |
| No passing zone (marked) | 0 | | |
| R.R. warning sign | 89 | 157 | 62% |
| R.R. automatic signal | 58 | | |
| R.R. crossing gate | 8 | | |
| Other/unknown/not stated | 32 | | 13% |
| Total no. of accidents | 253 | | |




156 6 59 15 8 3 1 10

**Figures indicate number of accidents involving train/motor vehicle collisions occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## TRAINS

**In 1978 there were:**
**17 persons killed in train/motor vehicle accidents**
**150 persons injured in train/motor vehicle accidents**
**253 train/motor vehicle accidents involving 253 trains and 291 motor vehicles**

## THE DRIVER* OF MOTOR VEHICLE INVOLVED

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 6 | 2.3 |
| Improper passing | 0 | 0.0 |
| Left of center, not passing | 0 | 0.0 |
| Failure to yield | 20 | 7.8 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 10 | 3.9 |
| Drag racing | 0 | 0.0 |
| Improper turn | 0 | 0.0 |
| Improper lane change | 0 | 0.0 |
| Following too close | 0 | 0.0 |
| Improper or no signal | 2 | 0.8 |
| Disregarded R.R. signal | 43 | 16.7 |
| Disregarded warning signal | 23 | 8.9 |
| Reckless driving | 0 | 0.0 |
| Improper backing | 0 | 0.0 |
| Illegal or improper parking | 1 | 0.4 |
| Failure to have control | 16 | 6.2 |
| Lights not on | 0 | 0.0 |
| Physically unfit | 1 | 0.4 |
| Drinking | 4 | 1.6 |
| Inattentive/distracted | 36 | 14.0 |
| Confused/inexperienced | 8 | 3.1 |
| Vision obscured | 11 | 4.3 |
| Vehicle defect | 3 | 1.2 |
| Oversized vehicle | 0 | 0.0 |
| Other | 13 | 5.1 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 204 | | 79% |
| Physical defect | 2 | | |
| Fatigued | 3 | | |
| Apparently asleep | 0 | | |
| Ill | 0 | 12 | 5% |
| Under medication | 0 | | |
| Infirmities of age | 2 | | |
| Other | 5 | | |
| Unknown | 41 | | 16% |

## THE MACHINE (MOTOR VEHICLE INVOLVED)

| | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 230 | | 79% |
| Turning left | 2 | | 1% |
| Turning right | 2 | | |
| Making U-turn | 0 | | |
| Passing | 0 | | |
| Changing lanes | 0 | | |
| Merging | 2 | | |
| Parking | 0 | 37 | 13% |
| Slowing-stopping | 5 | | |
| Backing | 0 | | |
| Stopped in traffic | 11 | | |
| Parked | 6 | | |
| Unattended moving vehicle | 0 | | |
| Other | 11 | | |
| Unknown/not stated | 22 | | 8% |
| Total no. of vehicles | 291 | | |

| Vehicle Defects | | | |
|---|---|---|---|
| None | 120 | | 41% |
| Brakes | 3 | | |
| Lights | 0 | | |
| Steering | 0 | | |
| Wipers | 0 | 5 | 2% |
| Tires | 0 | | |
| Power failure | 2 | | |
| Trailer hitch | 0 | | |
| Other | 0 | | |
| Unknown/not stated | 166 | | 57% |
| Total no. of vehicles | 291 | | |

*Based on 257 motor vehicle drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

# THE ENVIRONMENT

## PANEL TRUCKS

### Light

### The Roadway

**Contour**

| | | | |
|---|---|---|---|
| Straight, level | 1,940 | | 54% |
| Straight, up/downgrade | 525 | | |
| Straight, hill crest | 41 | | |
| Curve, level | 130 | | |
| Curve, up/downgrade | 90 | | |
| Curve, hill crest | 9 | 1,452 | 40% |
| Intersection, level | 489 | | |
| Intersection, up/downgrade | 154 | | |
| Intersection, hill crest | 14 | | |
| Unknown/not stated | 201 | | |
| Total no. of accidents | 3,593 | | 6% |

**Fixed Object Struck**

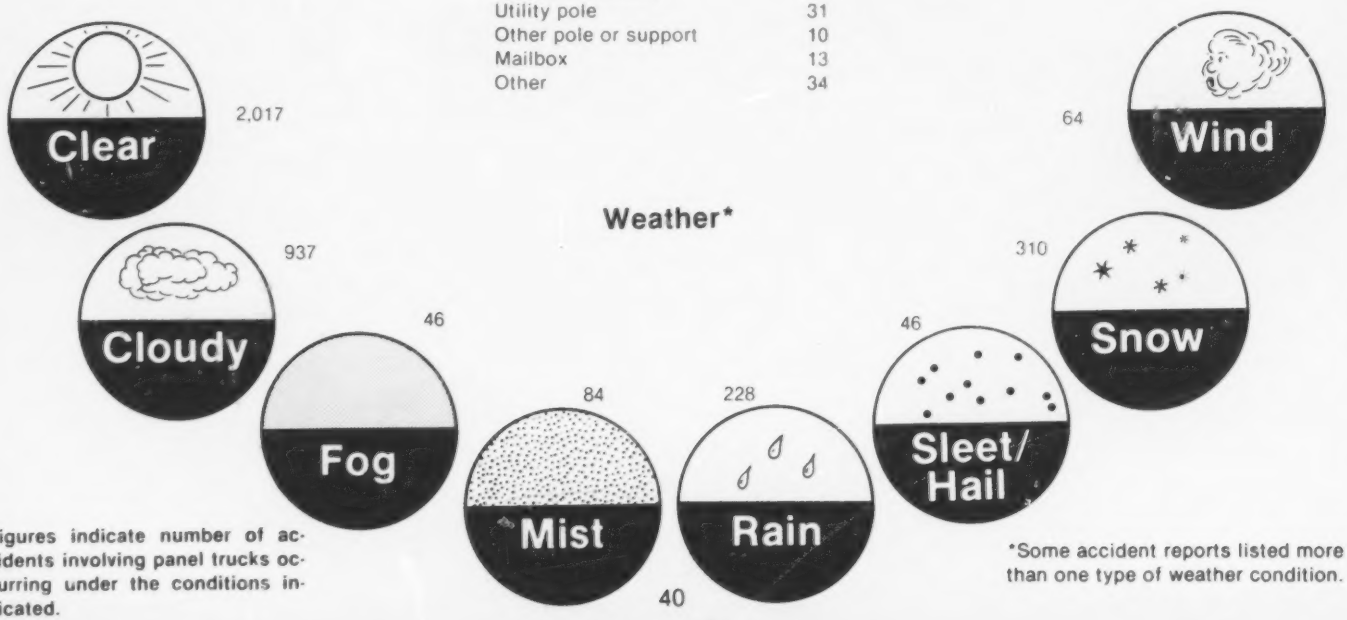
10% of all panel trucks involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 18 |
| Underpass/bridge support | 4 |
| Building | 9 |
| Culvert | 9 |
| Curb | 14 |
| Ditch | 70 |
| Island/raised median | 5 |
| Embankment/retaining wall | 10 |
| Fence | 24 |
| Guardrail | 21 |
| Light pole | 31 |
| Sign post | 30 |
| Tree or shrubbery | 19 |
| Utility pole | 31 |
| Other pole or support | 10 |
| Mailbox | 13 |
| Other | 34 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 2,052 | | 57% |
| Traffic signals | 436 | | 12% |
| Stop sign | 313 | | 9% |
| Yield sign | 25 | | |
| No passing zone (marked) | 18 | | |
| R.R. warning sign | 4 | 56 | 2% |
| R.R. automatic signal | 8 | | |
| R.R. crossing gate | 1 | | |
| Other/unknown/not stated | 736 | | 20% |
| Total no. of accidents | 3,593 | | |

### Weather*

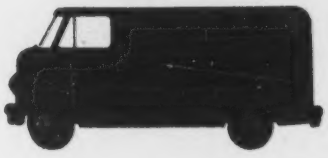



**Figures indicate number of accidents involving panel trucks occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## PANEL TRUCKS



**In 1978 there were:**

**14 panel truck occupants killed**
**3,593 accidents involving panel trucks**
**3,379 collision accidents involving panel trucks**
**214 non-collision accidents involving panel trucks**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 85 | 2.6 |
| Improper passing | 34 | 1.0 |
| Left of center, not passing | 26 | 0.8 |
| Failure to yield | 307 | 9.2 |
| Wrong way, one-way road | 3 | 0.1 |
| Speed too fast | 135 | 4.1 |
| Drag racing | 0 | 0.0 |
| Improper turn | 57 | 1.7 |
| Improper lane change | 51 | 1.5 |
| Following too close | 65 | 2.0 |
| Improper or no signal | 13 | 0.4 |
| Disregarded R.R. signal | 1 | 0.0 |
| Disregarded warning signal | 7 | 0.2 |
| Reckless driving | 13 | 0.4 |
| Improper backing | 93 | 2.8 |
| Illegal or improper parking | 9 | 0.3 |
| Failure to have control | 322 | 9.7 |
| Lights not on | 7 | 0.2 |
| Physically unfit | 17 | 0.5 |
| Drinking | 75 | 2.3 |
| Inattentive/distracted | 149 | 4.5 |
| Confused/inexperienced | 36 | 1.1 |
| Vision obscured | 87 | 2.6 |
| Vehicle defect | 35 | 1.1 |
| Oversized vehicle | 3 | 0.1 |
| Other | 124 | 3.7 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 2,541 | | 77% |
| Physical defect | 6 | | |
| Fatigued | 25 | | |
| Apparently asleep | 29 | | |
| Ill | 3 | 140 | 4% |
| Under medication | 4 | | |
| Infirmities of age | 5 | | |
| Other | 68 | | |
| Unknown | 642 | | 19% |

*Based on 3,323 panel truck drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

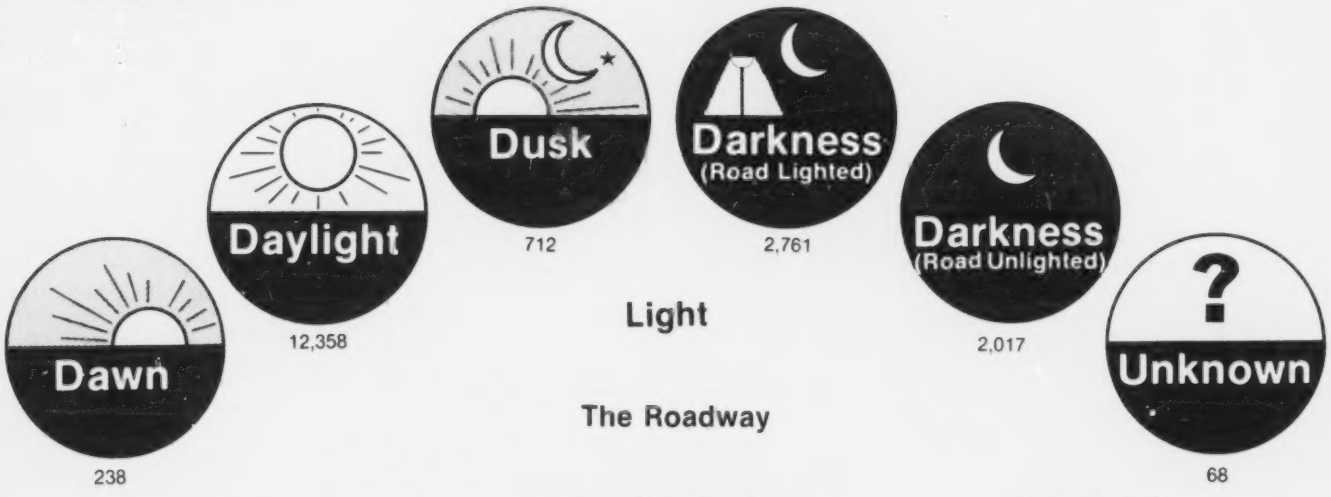
## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 1,761 | | 48% |
| Turning left | 302 | | 8% |
| Turning right | 138 | | |
| Making U-turn | 8 | | |
| Passing | 34 | | |
| Changing lanes | 51 | | |
| Merging | 29 | | |
| Parking | 13 | 900 | 25% |
| Slowing-stopping | 65 | | |
| Backing | 175 | | |
| Stopped in traffic | 159 | | |
| Parked | 181 | | |
| Unattended moving vehicle | 9 | | |
| Other | 38 | | |
| Unknown/not stated | 706 | | 19% |
| Total no. of vehicles | 3,669 | | |

| Vehicle Defects | | | |
|---|---|---|---|
| None | 1,730 | | 47% |
| Brakes | 14 | | |
| Lights | 5 | | |
| Steering | 6 | | |
| Wipers | 1 | 51 | 1% |
| Tires | 9 | | |
| Power failure | 1 | | |
| Trailer hitch | 0 | | |
| Other | 15 | | |
| Unknown/not stated | 1,888 | | 51% |
| Total no. of vehicles | 3,669 | | |

# THE ENVIRONMENT

## PICKUPS




### Light

### The Roadway

**Contour**

| | | | |
|---|---|---|---|
| Straight, level | 9,206 | | 51% |
| Straight, up/downgrade | 2,788 | | |
| Straight, hill crest | 368 | | |
| Curve, level | 768 | | |
| Curve, up/downgrade | 574 | | |
| Curve, hill crest | 59 | 7,969 | 44% |
| Intersection, level | 2,547 | | |
| Intersection, up/downgrade | 773 | | |
| Intersection, hill crest | 92 | | |
| Unknown/not stated | 979 | | |
| Total no. of accidents | 18,154 | | 5% |

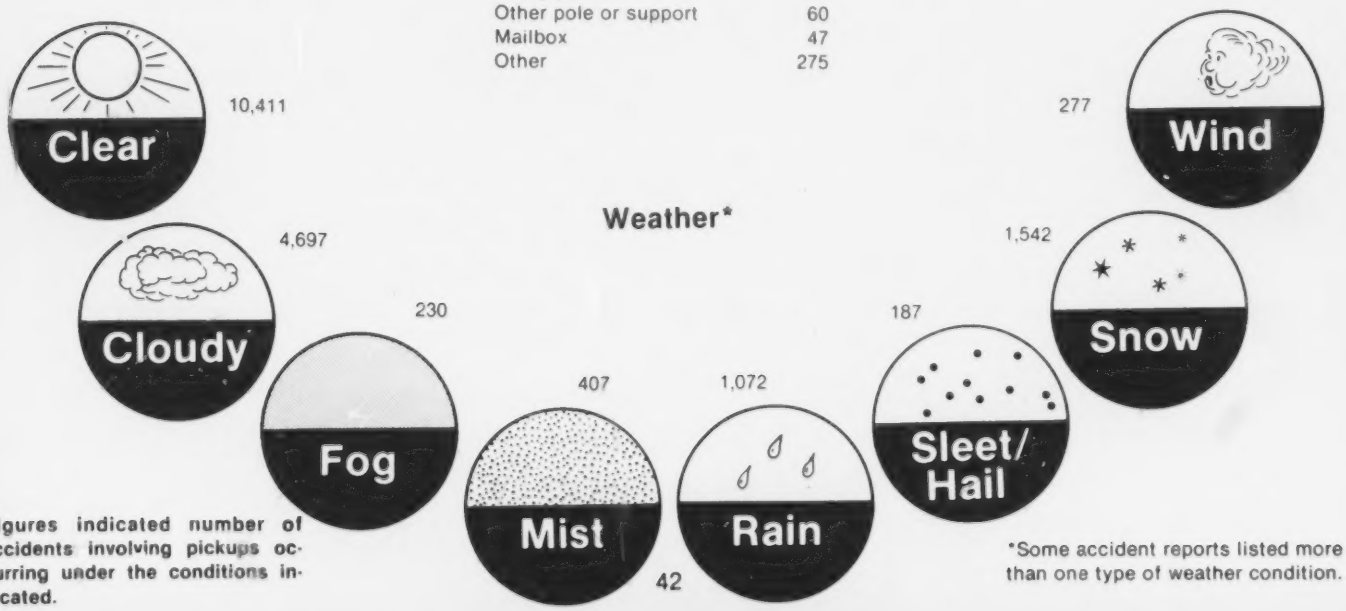
**Fixed Object Struck**

11% of all pickups involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 123 |
| Underpass/bridge support | 6 |
| Building | 65 |
| Culvert | 55 |
| Curb | 53 |
| Ditch | 543 |
| Island/raised median | 14 |
| Embankment/retaining wall | 74 |
| Fence | 190 |
| Guardrail | 69 |
| Light pole | 165 |
| Sign post | 132 |
| Tree or shrubbery | 128 |
| Utility pole | 176 |
| Other pole or support | 60 |
| Mailbox | 47 |
| Other | 275 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 10,776 | | 59% |
| Traffic signals | 1,750 | | 10% |
| Stop sign | 1,670 | | 9% |
| Yield sign | 143 | | |
| No passing zone (marked) | 107 | | |
| R.R. warning sign | 34 | 315 | 2% |
| R.R. automatic signal | 23 | | |
| R.R crossing gate | 8 | | |
| Other/unknown/not stated | 3,643 | | 20% |
| Total no. of accidents | 18,154 | | |



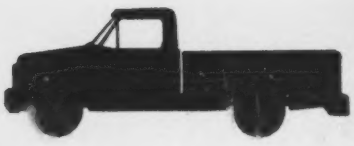

**Figures indicated number of accidents involving pickups occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## PICKUPS

**In 1978 there were:**
**59 pickup occupants killed**
**18,154 accidents involving pickups**
**16,778 collision accidents involving pickups**
**1,376 non-collision accidents involving pickups**



## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 407 | 2.3 |
| Improper passing | 200 | 1.1 |
| Left of center, not passing | 293 | 1.7 |
| Failure to yield | 1,655 | 9.4 |
| Wrong way, one-way road | 11 | 0.1 |
| Speed too fast | 840 | 4.8 |
| Drag racing | 3 | 0.0 |
| Improper turn | 197 | 1.1 |
| Improper lane change | 218 | 1.2 |
| Following too close | 367 | 2.1 |
| Improper or no signal | 88 | 0.5 |
| Disregarded R.R. signal | 7 | 0.0 |
| Disregarded warning signal | 26 | 0.1 |
| Reckless driving | 100 | 0.6 |
| Improper backing | 366 | 2.1 |
| Illegal or improper parking | 68 | 0.4 |
| Failure to have control | 1,729 | 9.8 |
| Lights not on | 18 | 0.1 |
| Physically unfit | 91 | 0.5 |
| Drinking | 448 | 2.5 |
| Inattentive/distracted | 694 | 3.9 |
| Confused/inexperienced | 280 | 1.6 |
| Vision obscured | 428 | 2.4 |
| Vehicle defect | 159 | 0.9 |
| Oversized vehicle | 6 | 0.0 |
| Other | 623 | 3.5 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 13,325 | | 75% |
| Physical defect | 35 | | |
| Fatigued | 156 | | |
| Apparently asleep | 167 | | |
| Ill | 10 | 806 | 5% |
| Under medication | 17 | | |
| Infirmities of age | 36 | | |
| Other | 385 | | |
| Unknown | 3,550 | | 20% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 9,786 | | 50% |
| Turning left | 1,719 | | 9% |
| Turning right | 698 | | |
| Making U-turn | 35 | | |
| Passing | 177 | | |
| Changing lanes | 192 | | |
| Merging | 101 | | |
| Parking | 68 | 4,073 | 21% |
| Slowing-stopping | 333 | | |
| Backing | 568 | | |
| Stopped in traffic | 667 | | |
| Parked | 935 | | |
| Unattended moving vehicle | 38 | | |
| Other | 241 | | |
| Unknown/not stated | 3,866 | | 20% |
| Total no. of vehicles | 19,444 | | |

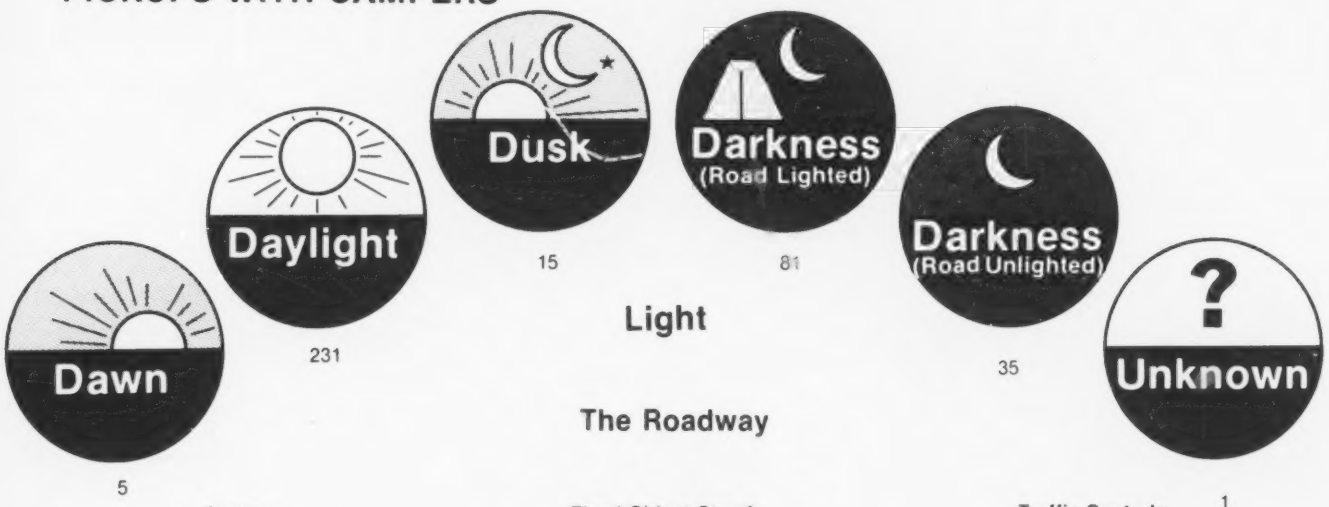
| Vehicle Defects | | | |
|---|---|---|---|
| None | 8,563 | | 44% |
| Brakes | 66 | | |
| Lights | 37 | | |
| Steering | 21 | | |
| Wipers | 10 | 255 | 1% |
| Tires | 45 | | |
| Power failure | 19 | | |
| Trailer hitch | 10 | | |
| Other | 47 | | |
| Unknown/not stated | 10,626 | | 55% |
| Total no. of vehicles | 19,444 | | |

*Based on 17,681 pickup drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

# Iowa

## THE ENVIRONMENT

## PICKUPS WITH CAMPERS




### Light

### The Roadway

#### Contour

| | | | |
|---|---|---|---|
| Straight, level | 201 | | 55% |
| Straight, up/downgrade | 61 | | |
| Straight, hill crest | 7 | | |
| Curve, level | 19 | | |
| Curve, up/downgrade | 4 | | |
| Curve, hill crest | 0 | 153 | 42% |
| Intersection, level | 47 | | |
| Intersection, up/downgrade | 15 | | |
| Intersection, hill crest | 0 | | |
| Unknown/not stated | 14 | | |
| Total no. of accidents | 368 | | 4% |

#### Fixed Object Struck

12% of all pickups with campers involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 3 |
| Underpass/bridge support | 0 |
| Building | 2 |
| Culvert | 2 |
| Curb | 2 |
| Ditch | 17 |
| Island/raised median | 0 |
| Embankment/retaining wall | 0 |
| Fence | 1 |
| Guardrail | 0 |
| Light pole | 3 |
| Sign post | 3 |
| Tree or shrubbery | 4 |
| Utility pole | 1 |
| Other pole or support | 1 |
| Mailbox | 0 |
| Other | 4 |

#### Traffic Controls

| | | | |
|---|---|---|---|
| No controls | 222 | | 60% |
| Traffic signals | 47 | | 13% |
| Stop sign | 25 | | 7% |
| Yield sign | 1 | | |
| No passing zone (marked) | 1 | | |
| R.R. warning sign | 1 | 3 | 1% |
| R.R. automatic signal | 0 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 71 | | 19% |
| Total no. of accidents | 368 | | |

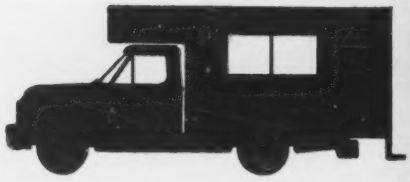
### Weather*

**Figures indicate number of accidents involving pickups with campers occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## PICKUPS WITH CAMPERS



**In 1978 there were:**
**0 occupants of pickups with campers killed**
**368 accidents involving pickups with campers**
**329 collision accidents involving pickups with campers**
**39 non-collision accidents involving pickups with campers**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 8 | 2.5 |
| Improper passing | 3 | 1.0 |
| Left of center, not passing | 4 | 1.3 |
| Failure to yield | 27 | 8.6 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 9 | 2.9 |
| Drag racing | 0 | 0.0 |
| Improper turn | 6 | 1.9 |
| Improper lane change | 4 | 1.3 |
| Following too close | 3 | 1.0 |
| Improper or no signal | 2 | 0.6 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 1 | 0.3 |
| Reckless driving | 4 | 1.3 |
| Improper backing | 6 | 1.9 |
| Illegal or improper parking | 2 | 0.6 |
| Failure to have control | 33 | 10.5 |
| Lights not on | 0 | 0.0 |
| Physically unfit | 3 | 1.0 |
| Drinking | 7 | 2.2 |
| Inattentive/distracted | 12 | 3.8 |
| Confused/inexperienced | 8 | 2.5 |
| Vision obscured | 8 | 2.5 |
| Vehicle defect | 1 | 0.3 |
| Oversized vehicle | 0 | 0.0 |
| Other | 14 | 4.4 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 236 | | 75% |
| Physical defect | 0 | | |
| Fatigued | 5 | | |
| Apparently asleep | 1 | | |
| Ill | 0 | 13 | 4% |
| Under medication | 0 | | |
| Infirmities of age | 1 | | |
| Other | 6 | | |
| Unknown | 66 | | 21% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 177 | | 48% |
| Turning left | 41 | | 11% |
| Turning right | 11 | | |
| Making U-turn | 0 | | |
| Passing | 3 | | |
| Changing lanes | 4 | | |
| Merging | 3 | | |
| Parking | 0 | 89 | 24% |
| Slowing-stopping | 5 | | |
| Backing | 14 | | |
| Stopped in traffic | 15 | | |
| Parked | 31 | | |
| Unattended moving vehicle | 2 | | |
| Other | 1 | | |
| Unknown/not stated | 64 | | 17% |
| Total no. of vehicles | 371 | | |

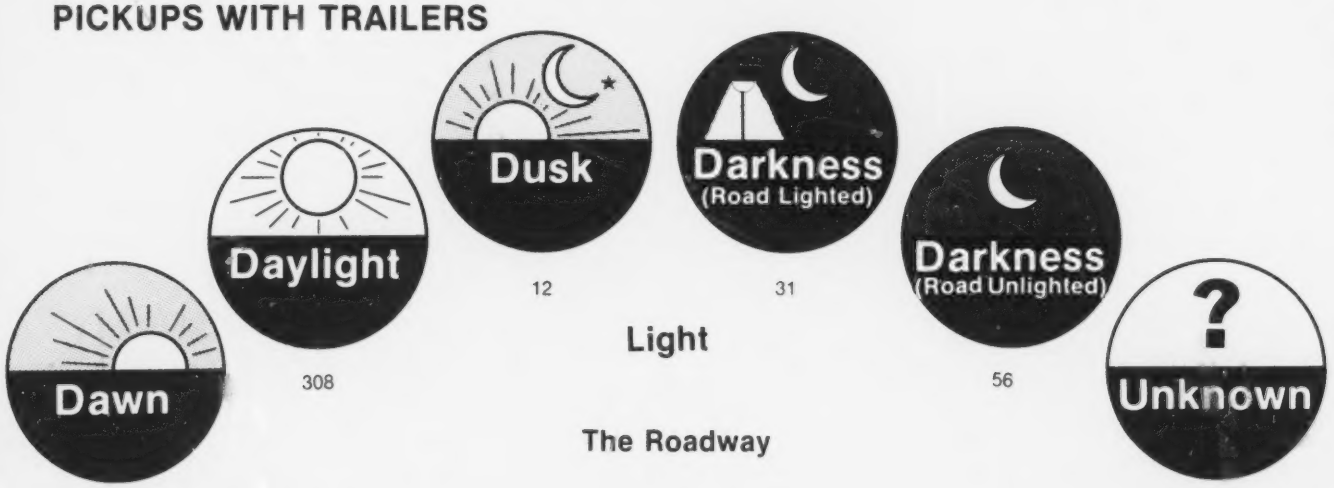
| Vehicle Defects | | | |
|---|---|---|---|
| None | 166 | | 45% |
| Brakes | 0 | | |
| Lights | 0 | | |
| Steering | 1 | | |
| Wipers | 0 | 4 | 1% |
| Tires | 1 | | |
| Power failure | 0 | | |
| Trailer hitch | 0 | | |
| Other | 2 | | |
| Unknown/not stated | 201 | | 54% |
| Total no. of vehicles | 371 | | |

*Based on 315 drivers of pickups with campers for which information was available.
**0-2 actions/circumstances listed for each driver.

# Iowa

## THE ENVIRONMENT

## PICKUPS WITH TRAILERS




12 31 308 56 6 0

### Light

### The Roadway

**Contour**

| | | |
|---|---|---|
| Straight, level | 195 | 47% |
| Straight, up/downgrade | 84 | |
| Straight, hill crest | 16 | |
| Curve, level | 18 | |
| Curve, up/downgrade | 14 | |
| Curve, hill crest | 0 | 204 49% |
| Intersection, level | 48 | |
| Intersection, up/downgrade | 22 | |
| Intersection, hill crest | 2 | |
| Unknown/not stated | 14 | |
| Total no. of accidents | 413 | 3% |

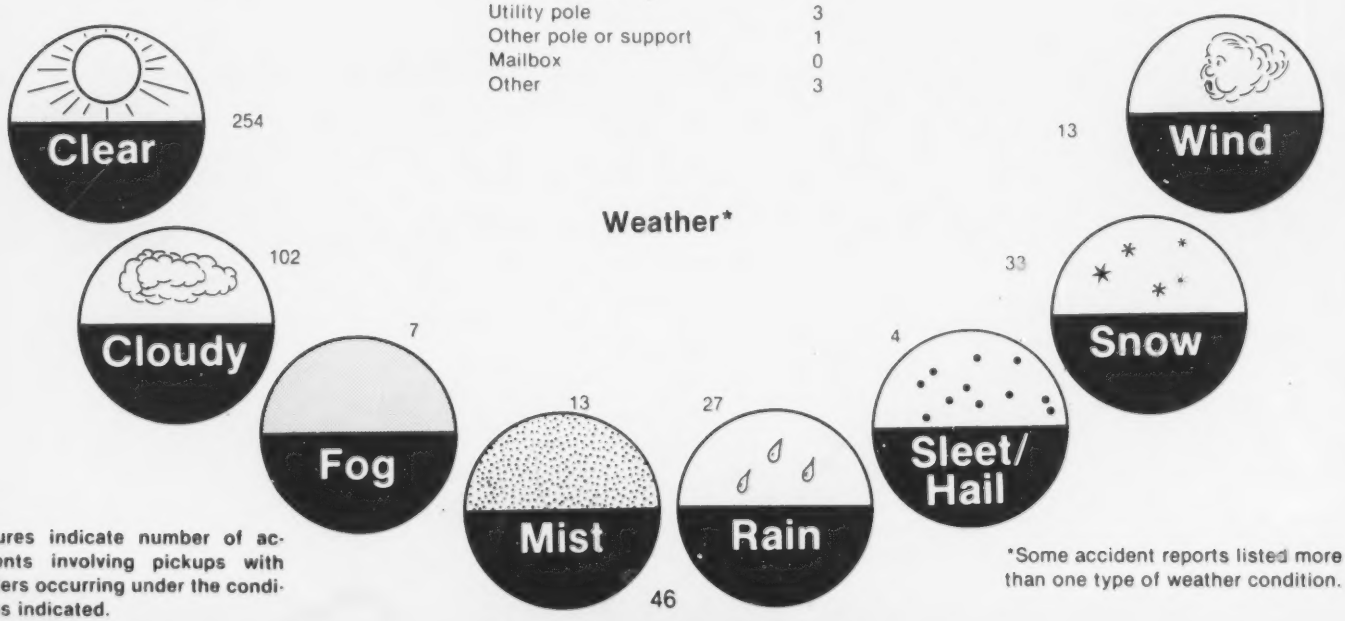
**Fixed Object Struck**

13% of all pickups with trailers involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 7 |
| Underpass/bridge support | 1 |
| Building | 2 |
| Culvert | 1 |
| Curb | 1 |
| Ditch | 19 |
| Island/raised median | 1 |
| Embankment/retaining wall | 0 |
| Fence | 2 |
| Guardrail | 4 |
| Light pole | 1 |
| Sign post | 2 |
| Tree or shrubbery | 4 |
| Utility pole | 3 |
| Other pole or support | 1 |
| Mailbox | 0 |
| Other | 3 |

**Traffic Controls**

| | | |
|---|---|---|
| No controls | 294 | 71% |
| Traffic signals | 24 | 6% |
| Stop sign | 25 | 6% |
| Yield sign | 0 | |
| No passing zone (marked) | 8 | |
| R.R. warning sign | 1 | 10 2% |
| R.R. automatic signal | 1 | |
| R.R. crossing gate | 0 | |
| Other/unknown/not stated | 60 | 15% |
| Total no. of accidents | 413 | |




254 13 102 33 7 4 13 27

### Weather*

**Figures indicate number of accidents involving pickups with trailers occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## PICKUPS WITH TRAILERS

**In 1978 there were:**
**3 occupants of pickups with trailers killed**
**413 accidents involving pickups with trailers**
**348 collision accidents involving pickups with trailers**
**65 non-collision accidents involving pickups with trailers**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 7 | 1.8 |
| Improper passing | 8 | 2.0 |
| Left of center, not passing | 8 | 2.0 |
| Failure to yield | 29 | 7.4 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 22 | 5.6 |
| Drag racing | 0 | 0.0 |
| Improper turn | 12 | 3.1 |
| Improper lane change | 5 | 1.3 |
| Following too close | 7 | 1.8 |
| Improper or no signal | 4 | 1.0 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 1 | 0.3 |
| Reckless driving | 1 | 0.3 |
| Improper backing | 2 | 0.5 |
| Illegal or improper parking | 1 | 0.3 |
| Failure to have control | 36 | 9.2 |
| Lights not on | 0 | 0.0 |
| Physically unfit | 1 | 0.3 |
| Drinking | 4 | 1.0 |
| Inattentive/distracted | 15 | 3.8 |
| Confused/inexperienced | 10 | 2.5 |
| Vision obscured | 9 | 2.3 |
| Vehicle defect | 19 | 4.8 |
| Oversized vehicle | 1 | 0.3 |
| Other | 18 | 4.6 |

**Driver Condition**

| | | | |
|---|---|---|---|
| Apparently normal | 342 | | 87% |
| Physical defect | 0 | | |
| Fatigued | 2 | | |
| Apparently asleep | 3 | | |
| Ill | 0 | 11 | 3% |
| Under medication | 0 | | |
| Infirmities of age | 1 | | |
| Other | 5 | | |
| Unknown | 40 | | 10% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | |
|---|---|---|
| Going straight | 269 | 65% |
| Turning left | 41 | 10% |
| Turning right | 17 | |
| Making U-turn | 1 | |
| Passing | 10 | |
| Changing lanes | 2 | |
| Merging | 4 | |
| Parking | 0 | 71 17% |
| Slowing-stopping | 6 | |
| Backing | 8 | |
| Stopped in traffic | 8 | |
| Parked | 10 | |
| Unattended moving vehicle | 0 | |
| Other | 5 | |
| Unknown/not stated | 33 | 89% |
| Total no. of vehicles | 414 | |

**Vehicle Defects**

| | | | |
|---|---|---|---|
| None | 219 | | 53% |
| Brakes | 4 | | |
| Lights | 2 | | |
| Steering | 0 | | |
| Wipers | 1 | 33 | 8% |
| Tires | 7 | | |
| Power failure | 0 | | |
| Trailer hitch | 14 | | |
| Other | 5 | | |
| Unknown/not stated | 162 | | 39% |
| Total no. of vehicles | 414 | | |

*Based on 393 drivers of pickups with trailers for which information was available.
**0-2 actions/circumstances listed for each driver.

# Iowa

## THE ENVIRONMENT

## STRAIGHT TRUCKS

33 | 2,391 | 77 | 154 | 125 | 3

### Light

### The Roadway

#### Contour

| | | | |
|---|---|---|---|
| Straight, level | 1,374 | | 49% |
| Straight, up/downgrade | 506 | | |
| Straight, hill crest | 38 | | |
| Curve, level | 125 | | |
| Curve, up/downgrade | 91 | | |
| Curve, hill crest | 5 | 1,311 | 47% |
| Intersection, level | 379 | | |
| Intersection, up/downgrade | 151 | | |
| Intersection, hill crest | 16 | | |
| Unknown/not stated | 98 | | |
| Total no. of accidents | 2,783 | | 4% |

#### Fixed Object Struck

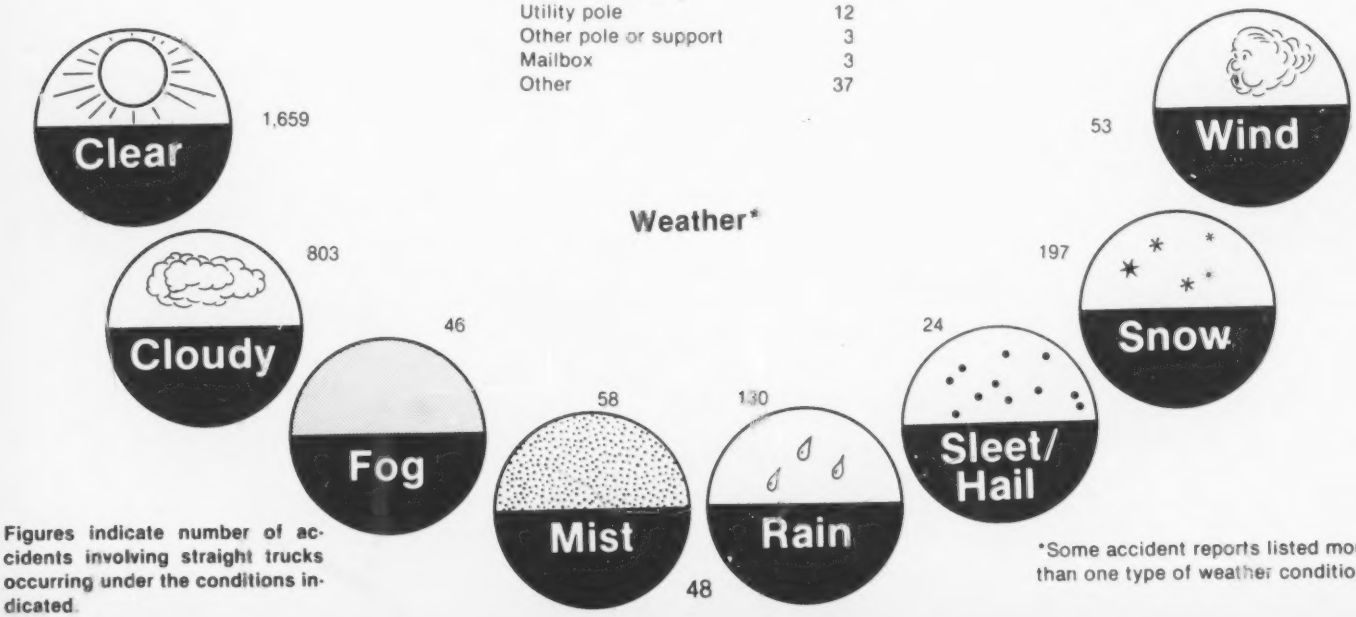
12% of all straight trucks involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 32 |
| Underpass/bridge support | 6 |
| Building | 11 |
| Culvert | 4 |
| Curb | 6 |
| Ditch | 116 |
| Island/raised median | 1 |
| Embankment/retaining wall | 9 |
| Fence | 26 |
| Guardrail | 9 |
| Light pole | 23 |
| Sign post | 25 |
| Tree or shrubbery | 10 |
| Utility pole | 12 |
| Other pole or support | 3 |
| Mailbox | 3 |
| Other | 37 |

#### Traffic Controls

| | | | |
|---|---|---|---|
| No controls | 1,691 | | 61% |
| Traffic signals | 291 | | 10% |
| Stop sign | 234 | | 8% |
| Yield sign | 18 | | |
| No passing zone (marked) | 30 | | |
| R.R. warning sign | 6 | 58 | 2% |
| R.R. automatic signal | 3 | | |
| R.R. crossing gate | 1 | | |
| Other/unknown/not stated | 509 | | 18% |
| Total no. of accidents | 2,783 | | |

### Weather*



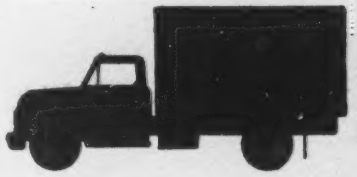

1,659 | 803 | 46 | 58 | 130 | 24 | 197 | 53

**Figures indicate number of accidents involving straight trucks occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## STRAIGHT TRUCKS



**In 1978 there were:**
**7 straight truck occupants killed**
**2,783 accidents involving straight trucks**
**2,416 collision accidents involving straight trucks**
**367 non-collision accidents involving straight trucks**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 61 | 2.3 |
| Improper passing | 55 | 2.0 |
| Left of center, not passing | 32 | 1.2 |
| Failure to yield | 208 | 7.7 |
| Wrong way, one-way road | 2 | 0.1 |
| Speed too fast | 125 | 4.6 |
| Drag racing | 1 | 0.0 |
| Improper turn | 60 | 2.2 |
| Improper lane change | 43 | 1.6 |
| Following too close | 64 | 2.4 |
| Improper or no signal | 25 | 0.9 |
| Disregarded R.R. signal | 2 | 0.1 |
| Disregarded warning signal | 5 | 0.2 |
| Reckless driving | 2 | 0.1 |
| Improper backing | 102 | 3.8 |
| Illegal or improper parking | 26 | 1.0 |
| Failure to have control | 235 | 8.7 |
| Lights not on | 4 | 0.1 |
| Physically unfit | 5 | 0.2 |
| Drinking | 19 | 0.7 |
| Inattentive/distracted | 117 | 4.4 |
| Confused/inexperienced | 39 | 1.5 |
| Vision obscured | 62 | 2.3 |
| Vehicle defect | 109 | 4.1 |
| Oversized vehicle | 16 | 0.6 |
| Other | 134 | 5.0 |

**Driver Condition**

| | | | |
|---|---|---|---|
| Apparently normal | 2,265 | | 84% |
| Physical defect | 3 | | |
| Fatigued | 11 | | |
| Apparently asleep | 17 | | |
| Ill | 0 | 55 | 2% |
| Under medication | 1 | | |
| Infirmities of age | 4 | | |
| Other | 19 | | |
| Unknown | 369 | | 14% |

*Based on 2,689 straight truck drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 1,437 | | 50% |
| Turning left | 301 | | 11% |
| Turning right | 166 | | |
| Making U-turn | 2 | | |
| Passing | 37 | | |
| Changing lanes | 47 | | |
| Merging | 14 | | |
| Parking | 6 | 725 | 25% |
| Slowing-stopping | 65 | | |
| Backing | 169 | | |
| Stopped in traffic | 76 | | |
| Parked | 79 | | |
| Unattended moving vehicle | 14 | | |
| Other | 50 | | |
| Unknown/not stated | 394 | | 14% |
| Total no. of vehicles | 2,857 | | |

**Vehicle Defects**

| | | | |
|---|---|---|---|
| None | 1,397 | | 49% |
| Brakes | 82 | | |
| Lights | 22 | | |
| Steering | 6 | | |
| Wipers | 0 | 160 | 6% |
| Tires | 25 | | |
| Power failure | 3 | | |
| Trailer hitch | 1 | | |
| Other | 21 | | |
| Unknown/not stated | 1,300 | | 46% |
| Total no. of vehicles | 2,857 | | |

# Iowa

## THE ENVIRONMENT

### TOW TRUCKS

### Light

### The Roadway

**Contour**

| | | | |
|---|---|---|---|
| Straight, level | 89 | | 52% |
| Straight, up/downgrade | 29 | | |
| Straight, hill crest | 1 | | |
| Curve, level | 6 | | |
| Curve, up/downgrade | 6 | | |
| Curve, hill crest | 1 | 71 | 41% |
| Intersection, level | 16 | | |
| Intersection, up/downgrade | 11 | | |
| Intersection, hill crest | 1 | | |
| Unknown/not stated | 12 | | |
| Total no. of accidents | 172 | | 7% |

**Fixed Object Struck**

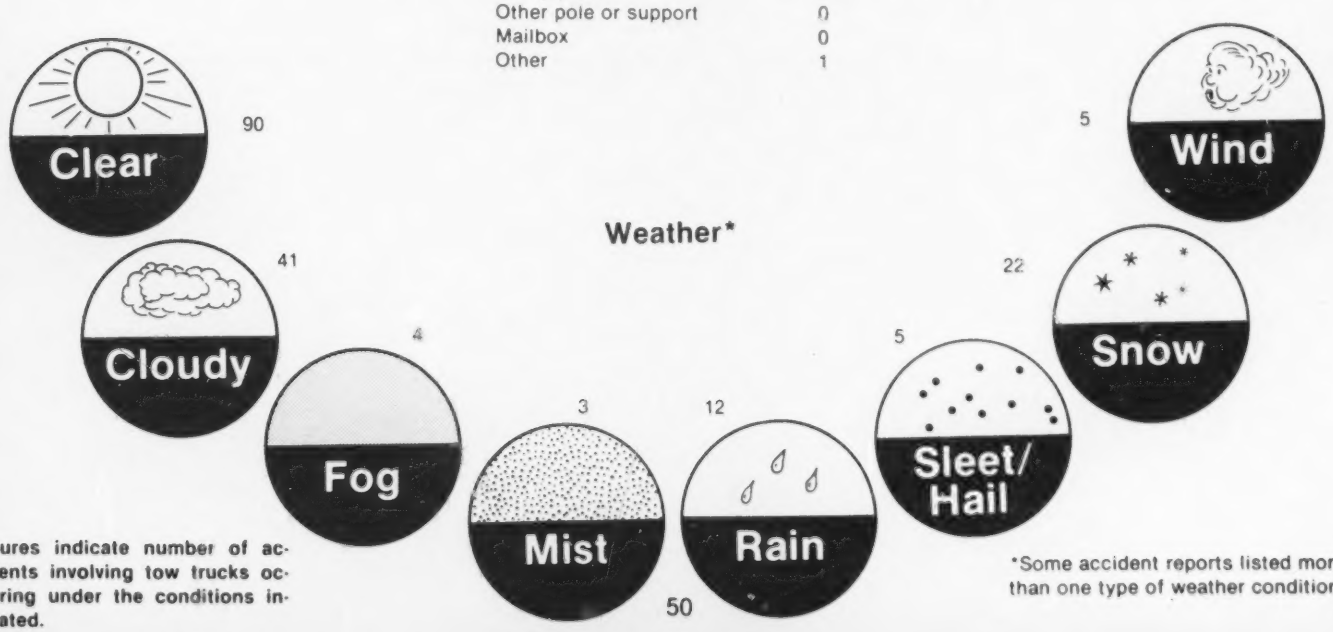
8% of all tow trucks involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 0 |
| Underpass/bridge support | 0 |
| Building | 1 |
| Culvert | 0 |
| Curb | 1 |
| Ditch | 2 |
| Island/raised median | 0 |
| Embankment/retaining wall | 0 |
| Fence | 3 |
| Guardrail | 0 |
| Light pole | 2 |
| Sign post | 2 |
| Tree or shrubbery | 0 |
| Utility pole | 1 |
| Other pole or support | 0 |
| Mailbox | 0 |
| Other | 1 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 103 | | 60% |
| Traffic signals | 23 | | 13% |
| Stop sign | 10 | | 6% |
| Yield sign | 0 | | |
| No passing zone (marked) | 0 | | |
| R.R. warning sign | 0 | 0 | |
| R.R. automatic signal | 0 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 36 | | 21% |
| Total no. of accidents | 172 | | |

### Weather*

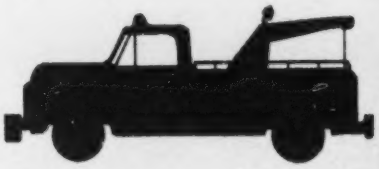



Figures indicate number of accidents involving tow trucks occurring under the conditions indicated.

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## TOW TRUCKS



**In 1978 there were:**
**0 tow truck occupants killed**
**172 accidents involving tow trucks**
**161 collision accidents involving tow trucks**
**11 non-collision accidents involving tow trucks**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 5 | 3.2 |
| Improper passing | 3 | 1.9 |
| Left of center, not passing | 3 | 1.9 |
| Failure to yield | 10 | 6.4 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 8 | 5.1 |
| Drag racing | 0 | 0.0 |
| Improper turn | 2 | 1.3 |
| Improper lane change | 0 | 0.0 |
| Following too close | 5 | 3.2 |
| Improper or no signal | 2 | 1.3 |
| Disregarded R.R. signal | 0 | 0.0 |
| Disregarded warning signal | 0 | 0.0 |
| Reckless driving | 0 | 0.0 |
| Improper backing | 4 | 2.5 |
| Illegal or improper parking | 2 | 1.3 |
| Failure to have control | 7 | 4.5 |
| Lights not on | 0 | 0.0 |
| Physically unfit | 0 | 0.0 |
| Drinking | 4 | 2.5 |
| Inattentive/distracted | 1 | 0.6 |
| Confused/inexperienced | 1 | 0.6 |
| Vision obscured | 4 | 2.5 |
| Vehicle defect | 10 | 6.4 |
| Oversized vehicle | 1 | 0.6 |
| Other | 13 | 8.3 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 128 | | 82% |
| Physical defect | 1 | | |
| Fatigued | 0 | | |
| Apparently asleep | 0 | | |
| Ill | 0 | 4 | 3% |
| Under medication | 0 | | |
| Infirmities of age | 0 | | |
| Other | 3 | | |
| Unknown | 25 | | 16% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 92 | | 53% |
| Turning left | 19 | | 11% |
| Turning right | 4 | | |
| Making U-turn | 0 | | |
| Passing | 2 | | |
| Changing lanes | 1 | | |
| Merging | 1 | | |
| Parking | 0 | 38 | 22% |
| Slowing-stopping | 2 | | |
| Backing | 5 | | |
| Stopped in traffic | 7 | | |
| Parked | 11 | | |
| Unattended moving vehicle | 0 | | |
| Other | 5 | | |
| Unknown/not stated | 24 | | 14% |
| Total no. of vehicles | 173 | | |

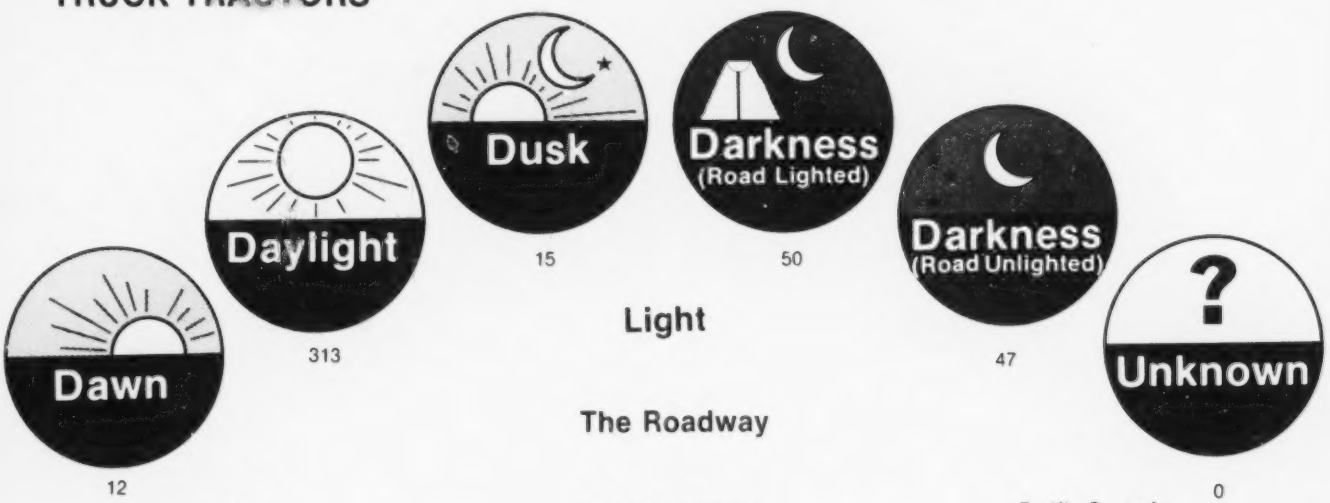
| Vehicle Defects | | | |
|---|---|---|---|
| None | 86 | | 50% |
| Brakes | 5 | | |
| Lights | 0 | | |
| Steering | 0 | | |
| Wipers | 0 | 8 | 5% |
| Tires | 0 | | |
| Power failure | 0 | | |
| Trailer hitch | 0 | | |
| Other | 3 | | |
| Unknown/not stated | 79 | | 46% |
| Total no. of vehicles | 173 | | |

*Based on 157 tow truck drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

# Iowa

## THE ENVIRONMENT

## TRUCK TRACTORS




15 50 313 47 12 0

### Light

### The Roadway

#### Contour

| | | | |
|---|---|---|---|
| Straight, level | 217 | | 50% |
| Straight, up/downgrade | 81 | | |
| Straight, hill crest | 2 | | |
| Curve, level | 24 | | |
| Curve, up/downgrade | 18 | | |
| Curve, hill crest | 3 | 205 | 47% |
| Intersection, level | 57 | | |
| Intersection, up/downgrade | 20 | | |
| Intersection, hill crest | 0 | | |
| Unknown/not stated | 15 | | |
| Total no. of accidents | 437 | | 3% |

#### Fixed Object Struck

16% of all truck tractors involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 5 |
| Underpass/bridge support | 3 |
| Building | 3 |
| Culvert | 3 |
| Curb | 0 |
| Ditch | 12 |
| Island/raised median | 1 |
| Embankment/retaining wall | 2 |
| Fence | 6 |
| Guardrail | 5 |
| Light pole | 9 |
| Sign post | 4 |
| Tree or shrubbery | 2 |
| Utility pole | 6 |
| Other pole or support | 4 |
| Mailbox | 0 |
| Other | 6 |

#### Traffic Controls

| | | | |
|---|---|---|---|
| No controls | 271 | | 62% |
| Traffic signals | 60 | | 14% |
| Stop sign | 27 | | 6% |
| Yield sign | 2 | | |
| No passing zone (marked) | 2 | | |
| R.R. warning sign | 1 | 9 | 2% |
| R.R. automatic signal | 4 | | |
| R.R. crossing gate | 0 | | |
| Other/unknown/not stated | 70 | | 16% |
| Total no. of accidents | 437 | | |

### Weather*

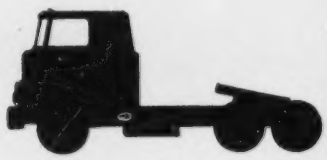
261 11 104 36 8 10 13 36

**Figures indicate number of accidents involving truck tractors occurring under the conditions indicated.**

*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## TRUCK TRACTORS



**In 1978 there were:**

**2 truck tractor occupants killed**
**437 accidents involving truck tractors**
**376 collision accidents involving truck tractors**
**61 non-collision accidents involving truck tractors**

## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | % of Drivers Involved in Accidents |
|---|---|---|
| Ran traffic control | 8 | 1.9 |
| Improper passing | 12 | 2.9 |
| Left of center, not passing | 7 | 1.7 |
| Failure to yield | 19 | 4.6 |
| Wrong way, one-way road | 0 | 0.0 |
| Speed too fast | 21 | 5.1 |
| Drag racing | 0 | 0.0 |
| Improper turn | 13 | 3.1 |
| Improper lane change | 12 | 2.9 |
| Following too close | 15 | 3.6 |
| Improper or no signal | 2 | 0.5 |
| Disregarded R.R. signal | 2 | 0.5 |
| Disregarded warning signal | 2 | 0.5 |
| Reckless driving | 1 | 0.2 |
| Improper backing | 7 | 1.7 |
| Illegal or improper parking | 2 | 0.5 |
| Failure to have control | 37 | 8.9 |
| Lights not on | 0 | 0.0 |
| Physically unfit | 1 | 0.2 |
| Drinking | 0 | 0.0 |
| Inattentive/distracted | 16 | 3.9 |
| Confused/inexperienced | 5 | 1.2 |
| Vision obscured | 4 | 1.0 |
| Vehicle defect | 16 | 3.9 |
| Oversized vehicle | 4 | 1.0 |
| Other | 18 | 4.3 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 343 | | 83% |
| Physical defect | 2 | | |
| Fatigued | 2 | | |
| Apparently asleep | 5 | | |
| Ill | 0 | 13 | 3% |
| Under medication | 0 | | |
| Infirmities of age | 1 | | |
| Other | 3 | | |
| Unknown | 58 | | 14% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 243 | | 54% |
| Turning left | 27 | | 6% |
| Turning right | 37 | | |
| Making U-turn | 0 | | |
| Passing | 12 | | |
| Changing lanes | 7 | | |
| Merging | 4 | | |
| Parking | 0 | 105 | 23% |
| Slowing-stopping | 7 | | |
| Backing | 10 | | |
| Stopped in traffic | 5 | | |
| Parked | 16 | | |
| Unattended moving vehicle | 3 | | |
| Other | 4 | | |
| Unknown/not stated | 72 | | 16% |
| Total no. of vehicles | 447 | | |

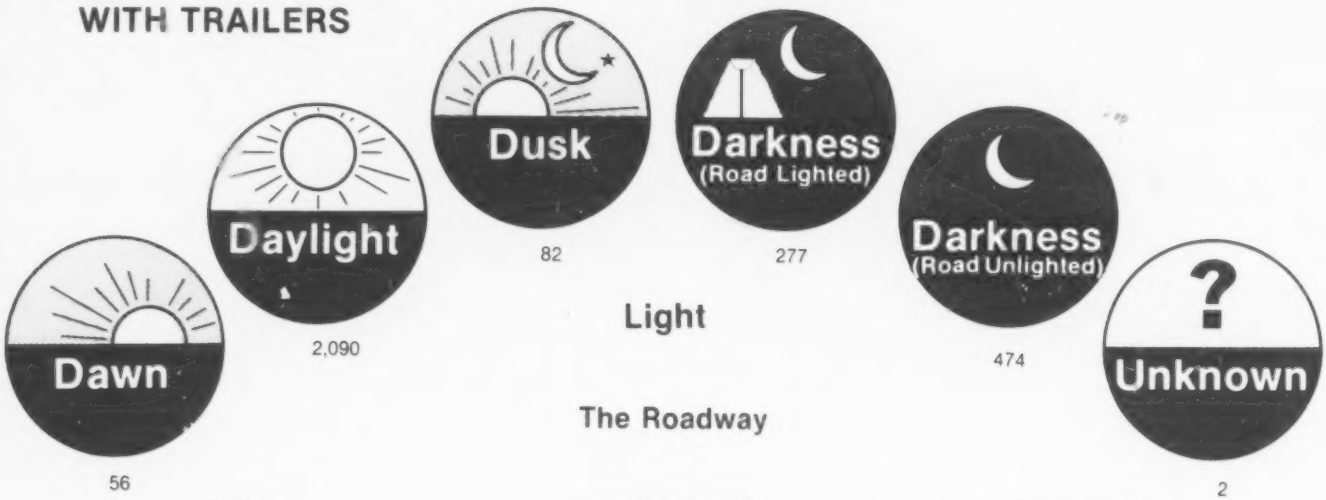
| Vehicle Defects | | | |
|---|---|---|---|
| None | 211 | | 47% |
| Brakes | 10 | | |
| Lights | 1 | | |
| Steering | 3 | | |
| Wipers | 0 | 25 | 6% |
| Tires | 5 | | |
| Power failure | 1 | | |
| Trailer hitch | 2 | | |
| Other | 3 | | |
| Unknown/not stated | 211 | | 47% |
| Total no. of vehicles | 447 | | |

*Based on 414 truck tractor drivers for which information was available.
**0-2 actions/circumstances listed for each driver.

# Iowa

## THE ENVIRONMENT

## TRUCK TRACTORS WITH TRAILERS




### Light

### The Roadway

**Contour**

| | | | |
|---|---|---|---|
| Straight, level | 1,385 | | 46% |
| Straight, up/downgrade | 578 | | |
| Straight, hill crest | 25 | | |
| Curve, level | 152 | | |
| Curve, up/downgrade | 139 | | |
| Curve, hill crest | 8 | 1,446 | 49% |
| Intersection, level | 420 | | |
| Intersection, up/downgrade | 117 | | |
| Intersection, hill crest | 7 | | |
| Unknown/not stated | 150 | | |
| Total no. of accidents | 2,981 | | 5% |

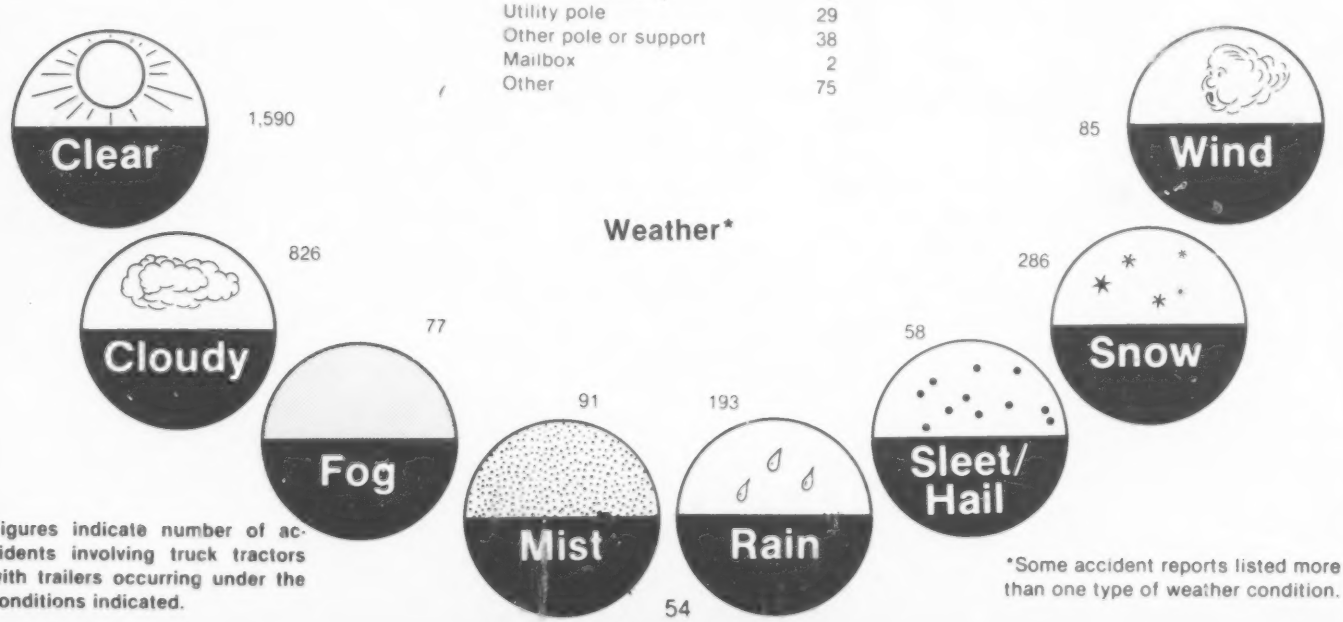
**Fixed Object Struck**

18% of all truck tractors with trailers involved in accidents struck fixed objects.

| | |
|---|---|
| Bridge/overpass | 61 |
| Underpass/bridge support | 11 |
| Building | 7 |
| Culvert | 7 |
| Curb | 6 |
| Ditch | 113 |
| Island/raised median | 1 |
| Embankment/retaining wall | 12 |
| Fence | 38 |
| Guardrail | 42 |
| Light pole | 49 |
| Sign post | 57 |
| Tree or shrubbery | 5 |
| Utility pole | 29 |
| Other pole or support | 38 |
| Mailbox | 2 |
| Other | 75 |

**Traffic Controls**

| | | | |
|---|---|---|---|
| No controls | 1,761 | | 59% |
| Traffic signals | 348 | | 12% |
| Stop sign | 168 | | 6% |
| Yield sign | 15 | | |
| No passing zone (marked) | 46 | | |
| R.R. warning sign | 8 | 82 | 3% |
| R.R. automatic signal | 10 | | |
| R.R. crossing gate | 3 | | |
| Other/unknown/not stated | 622 | | 21% |
| Total no. of accidents | 2,981 | | |




**Figures indicate number of accidents involving truck tractors with trailers occurring under the conditions indicated.**

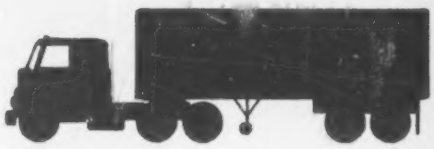
*Some accident reports listed more than one type of weather condition.

# ACCIDENTS INVOLVING

## TRUCK TRACTORS WITH TRAILERS

**In 1978 there were:**

**21 occupants of truck tractors with trailers killed**
**2,981 accidents involving truck tractors with trailers**
**2,479 collision accidents involving truck tractors with trailers**
**502 non-collision accidents involving truck tractors with trailers**



## THE DRIVER*

| Driver Action/ Contributing Circumstances** | Number of Drivers | | % of Drivers Involved in Accidents |
|---|---|---|---|
| Ran traffic control | 48 | | 1.6 |
| Improper passing | 74 | | 2.5 |
| Left of center, not passing | 34 | | 1.2 |
| Failure to yield | 82 | | 2.8 |
| Wrong way, one-way road | 2 | | 0.1 |
| Speed too fast | 146 | | 4.9 |
| Drag racing | 0 | | 0.0 |
| Improper turn | 118 | | 4.0 |
| Improper lane change | 67 | | 2.3 |
| Following too close | 76 | | 2.6 |
| Improper or no signal | 9 | | 0.3 |
| Disregarded R.R. signal | 5 | | 0.2 |
| Disregarded warning signal | 17 | | 0.6 |
| Reckless driving | 1 | | 0.0 |
| Improper backing | 59 | | 2.0 |
| Illegal or improper parking | 15 | | 0.5 |
| Failure to have control | 311 | | 10.5 |
| Lights not on | 2 | | 0.1 |
| Physically unfit | 20 | | 0.7 |
| Drinking | 7 | | 0.2 |
| Inattentive/distracted | 104 | | 3.5 |
| Confused/inexperienced | 44 | | 1.5 |
| Vision obscured | 65 | | 2.2 |
| Vehicle defect | 97 | | 3.3 |
| Oversized vehicle | 33 | | 1.1 |
| Other | 166 | | 5.6 |

| Driver Condition | | | |
|---|---|---|---|
| Apparently normal | 2,410 | | 82% |
| Physical defect | 1 | | |
| Fatigued | 21 | | |
| Apparently asleep | 38 | | |
| Ill | 3 | 74 | 3% |
| Under medication | 0 | | |
| Infirmities of age | 1 | | |
| Other | 10 | | |
| Unknown | 466 | | 16% |

## THE MACHINE

| Vehicle Action | No. of Vehicles | | |
|---|---|---|---|
| Going straight | 1,634 | | 53% |
| Turning left | 203 | | 7% |
| Turning right | 298 | | |
| Making U-turn | 2 | | |
| Passing | 98 | | |
| Changing lanes | 67 | | |
| Merging | 9 | | |
| Parking | 4 | 789 | 25% |
| Slowing-stopping | 66 | | |
| Backing | 83 | | |
| Stopped in traffic | 62 | | |
| Parked | 43 | | |
| Unattended moving vehicle | 8 | | |
| Other | 49 | | |
| Unknown/not stated | 483 | | 16% |
| Total no. of vehicles | 3,109 | | |

| Vehicle Defects | | | |
|---|---|---|---|
| None | 1,595 | | 51% |
| Brakes | 46 | | |
| Lights | 6 | | |
| Steering | 10 | | |
| Wipers | 0 | 119 | 4% |
| Tires | 27 | | |
| Power failure | 10 | | |
| Trailer hitch | 2 | | |
| Other | 16 | | |
| Unknown/not stated | 1,395 | | 45% |
| Total no. of vehicles | 3,109 | | |

*Based on 2,950 drivers of truck tractors with trailers for which information was available.

**0-2 actions/circumstances listed for each driver.

MAIL REPORTS TO:
Drivers License Division
Dept. of Public Safety
Lucas State Office Bldg.
Des Moines, Iowa 50319

REPORT NUMBER

STATE OF IOWA

# INVESTIGATING OFFICERS REPORT OF MOTOR VEHICLE ACCIDENT

PLEASE TYPE OR PRINT

ACCIDENT NUMBER

R | County | City | U

**SUM**
Total Number Persons Killed | Total Number Persons Injured | Total Number Vehicles Involved | Total Amount of Property Damage $

**DATE**
Date of Accident: Month | Day | Year
Day of Week Code: Sun Mon Tue Wed Thu Fri Sat (1 2 3 4 5 6 7)
Time ____ : ____ AM PM

Route | Road Class | Inter-Class

**VICINITY**
County
Accident occurred within Corporate limits of (City)
If accident occurred outside of City Limits show general vicinity ____ Miles N NE E SE S SW W NW of Nearest City

Intersection Identifier

**SPECIFIC LOCATION**
On Road, Street or Highway — ROAD CLASS CODE
At Intersection with — ROAD CLASS CODE

ROAD CLASS CODES
1=Interstate/Freeway
2=US or State Highway
3=County Road
4=City Street
5=Other
0=Unknown

Reference Node

NOTE: Unless accident occurred at an intersection which is completely described above, use the space below to give the exact location from a Milepost or definable intersection, bridge or railroad crossing, using two distances and directions if necessary.

Feet Miles N NE E SE S SW W NW or ____ and Feet Miles N NE E SE S SW W NW of

Distance Indicator

Direction Node

Milepost Number OR Definable Intersection, bridge or railroad crossing

## UNIT NUMBER 1

**Driver 1**

DRIVERS NAME - LAST, FIRST, MIDDLE | DATE OF BIRTH: Month | Day | Year | SEX: Male Female

STREET OR RFD | CITY & STATE | ZIP CODE

DRIVERS LICENSE NUMBER | STATE | LICENSE TYPE CODE | 1=Operator 2=Chauffeur 3=TDP (Operator) 4=TDP (Chauffeur) 5=TDP (Probationary) 6=Inst. Permit 7=School 8=Other 9=None

LICENSE RESTRICTIONS | RESTRICTION COMPLIED WITH | 1=Yes 2=No 3=Unknown | CHEMICAL TEST GIVEN? | 1=Yes 2=No 3=Refused | TYPE TEST GIVEN | 1=Blood 2=Breath 3=Urine | TEST RESULTS %

**Vehicle 1**

OWNERS NAME - LAST, FIRST, MIDDLE | STREET OR RFD

CITY & STATE | ZIP | LICENSE PLATE NUMBER | STATE | YEAR | VALIDATION NUMBER | YEAR

VEHICLE MAKE | YEAR | BODY TYPE | COLOR | TOTAL OCCUPANTS THIS UNIT

VEHICLE TYPE CODE
01=Passenger Car
02=Car & Trailer
03=Panel Truck
04=Pickup Truck
05=Pickup & Trailer
06=Pickup Camper
07=Straight Truck
08=Truck Tractor
09=Truck Tractor/Semi
10=Double Bottom Truck
11=Tow Truck/Wrecker
12=Motor Home
13=Bus
14=School Bus
15=Farm Veh/Equip
16=Motorcycle
17=Bicycle, Etc.
18=Recreation Veh.
19=Maint/Const Veh.
20=Train
21=Other (Describe)
00=Unknown

SPECIAL USE CODE: 0=Unknown 1=None 2=Police 3=Fire 4=Taxi 5=Gov't. 6=Ambulance 7=Towing 8=Driver Trng. 9=Other (Describe)

DAMAGE SEVERITY CODE: 0=Unknown 1=None 2=Light 3=Moderate 4=Severe | Approx Cost to Repair or Replace $ | SPEED LIMIT

01 Front 02 03 04 05 06 07 08 09 10 Under-Carriage 00 Unknown

INDICATE POINT OF INITIAL IMPACT (Using one of the Codes from diagram at left)

INDICATE DAMAGED AREA OF VEHICLE (Using up to four codes from diagram at left - If more than four areas are damaged, show the four most severely damaged)

## UNIT NUMBER 2

**Driver 2**

DRIVERS NAME - LAST, FIRST, MIDDLE | DATE OF BIRTH: Month | Day | Year | SEX: Male Female

STREET OR RFD | CITY & STATE | ZIP CODE

DRIVERS LICENSE NUMBER | STATE | LICENSE TYPE CODE | 1=Operator 2=Chauffeur 3=TDP (Operator) 4=TDP (Chauffeur) 5=TDP (Probationary) 6=Inst. Permit 7=School 8=Other 9=None

LICENSE RESTRICTIONS | RESTRICTION COMPLIED WITH | 1=Yes 2=No 3=Unknown | CHEMICAL TEST GIVEN? | 1=Yes 2=No 3=Refused | TYPE TEST GIVEN | 1=Blood 2=Breath 3=Urine | TEST RESULTS %

**Vehicle 2**

OWNERS NAME - LAST, FIRST, MIDDLE | STREET OR RFD

CITY & STATE | ZIP | LICENSE PLATE NUMBER | STATE | YEAR | VALIDATION NUMBER | YEAR

VEHICLE MAKE | YEAR | BODY TYPE | COLOR | TOTAL OCCUPANTS THIS UNIT

VEHICLE TYPE CODE
01=Passenger Car
02=Car & Trailer
03=Panel Truck
04=Pickup Truck
05=Pickup & Trailer
06=Pickup Camper
07=Straight Truck
08=Truck Tractor
09=Truck Tractor/Semi
10=Double Bottom Truck
11=Tow Truck/Wrecker
12=Motor Home
13=Bus
14=School Bus
15=Farm Veh/Equip
16=Motorcycle
17=Bicycle, Etc.
18=Recreation Veh.
19=Maint/Const Veh.
20=Train
21=Other (Describe)
00=Unknown

SPECIAL USE CODE: 0=Unknown 1=None 2=Police 3=Fire 4=Taxi 5=Gov't. 6=Ambulance 7=Towing 8=Driver Trng. 9=Other (Describe)

DAMAGE SEVERITY CODE: 0=Unknown 1=None 2=Light 3=Moderate 4=Severe | Approx Cost to Repair or Replace $ | SPEED LIMIT

01 Front 02 03 04 05 06 07 08 09 10 Under-Carriage 00 Unknown

INDICATE POINT OF INITIAL IMPACT (Using one of the Codes from diagram at left)

INDICATE DAMAGED AREA OF VEHICLE (Using up to four codes from diagram at left - If more than four areas are damaged, show the four most severely damaged)

## INJURED PERSONS

| SEVERITY CODE | INJURED AREA CODE | POSITION OF INJURED PERSON |
|---|---|---|
| 1=Fatal<br>2=Major (Incapacitating)<br>3=Minor (Bruises - Abrasions)<br>4=Possible (Complaint of Pain)<br>0=Unknown | 1=Upper Torso<br>2=Lower Torso<br>3=Internal<br>4=Head<br>5=Arms<br>6=Legs<br>7=Multiple<br>0=Unknown | 1 2 3 / 4 5 6 / 7 8 9<br>0 = Unknown<br>M = On Motorcycle<br>U = Bus Pass.<br>B = Bicycle<br>P = Pedestrian<br>T = Other |

| Name - Last, First, Middle | | | Veh/Ped. No. | Age | Male | Female |
|---|---|---|---|---|---|---|
| Street or RFD | City and State | Zip Code | Severity Code | Injured Area Code | Position of Injured Person | |
| Injured Taken to | | | | | | |
| Name - Last, First, Middle | | | Veh/Ped. No. | Age | Male | Female |
| Street or RFD | City and State | Zip Code | Severity Code | Injured Area Code | Position of Injured Person | |
| Injured Taken to | | | | | | |
| Name - Last, First, Middle | | | Veh/Ped. No. | Age | Male | Female |
| Street or RFD | City and State | Zip Code | Severity Code | Injured Area Code | Position of Injured Person | |
| Injured Taken to | | | | | | |
| Name - Last, First, Middle | | | Veh/Ped. No. | Age | Male | Female |
| Street or RFD | City and State | Zip Code | Severity Code | Injured Area Code | Position of Injured Person | |
| Injured Taken to | | | | | | |

## SAFETY EQUIPMENT

| Seat Position | | Front Seat 1 | 2 | 3 | Back Seat 4 | 5 | 6 | Third Seat - Station Wagon 7 | 8 | 9 | Other 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit 1 | Belts Installed | | | | | | | | | | |
| | Belts Used | | | | | | | | | | |
| | Ejected | | | | | | | | | | |
| Unit 2 | Belts Installed | | | | | | | | | | |
| | Belts Used | | | | | | | | | | |
| | Ejected | | | | | | | | | | |

SAFETY EQUIPMENT and MOTORCYCLE CODES
1 = Yes
2 = No
0 = Unknown

Other (Describe)

| MOTORCYCLE DRIVER | | | | MOTORCYCLE PASSENGER | | | |
|---|---|---|---|---|---|---|---|
| Helmet Worn | Eye Protection Used | Special Protective Clothing Worn | | Helmet Worn | Eye Protection Used | Special Protective Clothing Worn | |

## PROP DAM

| If property other than Vehicles Damaged Explain | Object Damaged | Estimage of Damage $ | Was Owner or Tenant Notified? | 1=Yes 2=No 3=Unknown |
|---|---|---|---|---|
| Name of Owner | | | | |
| Street or RFD | City & State | | Zip Code | |

## PEDESTRIAN NO. I

| Name - Last, first, Middle | | Date of Birth | Month | Day | Year | Sex | Male | Female |
|---|---|---|---|---|---|---|---|---|
| Street or RFD | City and State | | | | | | Zip Code | |

APPARENT PEDESTRIAN SOBRIETY
1=Had Not Been Drinking
2=Drinking (Not Impaired)
3=Drinking (Impaired)
4=Drugs
0=Unknown
Test Results _____ %

COLOR OF CLOTHING
1=Generally Light
2=Generally Dark
0=Unknown

PEDESTRIAN ACTION

01=Crossing, Against Signal
02=Crossing, Not At Crosswalk
03=Walking, Improper Position on Roadway
04=Soliciting Rides on Road
05=Walking With Traffic
06=Walking Against Traffic
07=Crossing, With Signal
08=Crossing, In Crosswalk
09=Onto Road Between Parked Cars
10=Ran Onto Roadway
11=Directing Traffic
12=Playing
13=Lying or Sitting on Roadway
14=Pushing, Working on Vehicle
15=Getting On or Off Vehicle
16=Maint/Const Project
17=Walking, Off Roadway
00=Unknown

Check if pedestrian is also listed as a driver on this report

## Accident Characteristics

**LOCATION OF ACCIDENT**

1 = On Roadway
2 = Off Roadway
0 = Unknown

[ ] (Where did first damage or injury event occur?)

**TYPE OF ACCIDENT**

Non-Collision
01 = Overturned
02 = Jackknifed
03 = Carbon Monoxide
04 = Fire/Explosion
05 = Immersion
06 = Other

Collision of Motor Vehicle with:
10 = Pedestrian
11 = Vehicle in Traffic
12 = Motorcycle in Traffic
13 = Vehicle in Other Roadway
14 = Parked Vehicle
15 = Train
16 = Pedalcycle
17 = Animal
18 = Fixed Object
19 = Other Object

[ ]

**VEHICLE ACTION**

01 = Going Straight
02 = Turning Left
03 = Turning Right
04 = Making U-Turn
05 = Passing
06 = Changing Lanes
07 = Merging
08 = Parking
09 = Slowing - Stopping
10 = Backing
11 = Stopped for Stop Sign/Signal
12 = Stopped in Traffic Lane
13 = Stalled in Traffic Lane
14 = Properly Parked
15 = Improperly Parked
16 = Other (Explain in Narrative)
17 = Unattended moving Vehicle
00 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

**FIXED OBJECT STRUCK**

00 = Unknown
01 = None
02 = Bridge or Overpass
03 = Underpass or Bridge Support
04 = Building
05 = Culvert
06 = Curb
07 = Ditch
08 = Island or Raised Median
09 = Embankment or Retaining Wall
10 = Fence
11 = Guardrail
12 = Light Pole
13 = Sign Post
14 = Tree or Shrubbery
15 = Utility Pole
16 = Other Pole or Support
17 = Mailbox
18 = Other

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

**LOCATION OF FIXED OBJECT STRUCK IF APPLICABLE**

0 = Unknown 3 = In Median
1 = On Roadway 4 = Off Roadway
2 = On Shoulder

N E S W
_____ Feet [ ] [ ] [ ] [ ]
From edge of Traveled Portion of Roadway

Vehicle No. _____ [ ]

**LOCATION OF FIXED OBJECT STRUCK IF APPLICABLE**

0 = Unknown 3 = In Median
1 = On Roadway 4 = Off Roadway
2 = On Shoulder

N E S W
_____ Feet [ ] [ ] [ ] [ ]
From edge of Traveled Portion of Roadway

Vehicle No. _____ [ ]

## Roadway Characteristics

**ROADWAY GEOMETRICS**

1 = Straight, Level
2 = Straight, Up/Downgrade
3 = Straight, Hillcrest
4 = Curve, Level
5 = Curve, Up/Downgrade
6 = Curve, Hillcrest
7 = Intersection, Level
8 = Intersection, Up/Downgrade
9 = Intersection, Hillcrest
0 = Unknown

[ ]

**CHARACTER OF ROADWAY**

Not at Intersection
01 = No special Feature
02 = Bridge/Overpass/Underpass
03 = Railroad Crossing
04 = Business Drive
05 = Farm/Residential Drive
06 = Other (Non-Intersection)

Intersection
11 = Within Intersection
12 = Not Within Intersection but Intersection Related
13 = Alley Intersection
14 = Other (Intersection)

Interchange
21 = Intersection of Ramp and Minor Road
22 = Ramp
23 = On Major Road, Between Ramps
24 = On Minor Road, Between Ramps
25 = Entrance Ramp at Major Road
26 = Major Road at Exit Ramp
27 = Bridge/Overpass/Underpass
28 = Not Within Interchange but Interchange Related
29 = Other (Interchange)
00 = Unknown

[ ]

**TRAFFIC CONTROLS**

01 = No Controls Present
02 = Traffic Signals
03 = Stop Sign
04 = Yield Sign
05 = Warning Sign
06 = School Signals
07 = No Passing Zone (Marked)
08 = School Stop Sign
09 = Stop Arm on School Bus
10 = Railroad Warning Sign
11 = Railroad Automatic Signal
12 = Railroad Crossing Gate
13 = Police Officer
14 = Other Traffic Director
15 = Other Control
00 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

Were traffic signs in place or signals functioning?

1 = Yes 3 = Not Applicable
2 = No 0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

**TYPE OF TRAFFICWAY**

1 = One Lane or Ramp
2 = Two Lanes
3 = Three Lanes
4 = Four or More, Undivided
5 = Four or More, Divided
6 = Alley
7 = Driveway
8 = Other (Creeper Lane etc.)
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

1 = One-Way Traffic
2 = Two-Way Traffic
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

**SURFACE TYPE**

1 = Portland Cement Concrete
2 = Asphalt Bituminous
3 = Gravel/Rock
4 = Dirt
5 = Brick
6 = Steel (Bridge Floor)
7 = Wood (Bridge Floor)
8 = Other
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

## Environment

**LOCALITY**

1 = Business District (Central)
2 = Manufacturing District
3 = Residential District
4 = Business District (Outlying)
5 = School/Playground Zone
6 = Recreational Area
7 = Open Country (Rural)
8 = Other
9 = Parking Lot/Private Prop.
0 = Unknown

[ ]

**LIGHT CONDITIONS**

1 = Daylight
2 = Dusk
3 = Dawn
4 = Darkness (Roadway Lighted)
5 = Darkness (Roadway Not Lighted)
6 = Unknown

[ ]

**WEATHER CONDITIONS**

1 = Clear 6 = Sleet/Hail
2 = Cloudy 7 = Snow
3 = Fog 8 = Strong Wind
4 = Mist 9 = Other
5 = Rain 0 = Unknown

(Indicate up to two conditions)

[ ] [ ]

**ROADWAY DEFECTS**

01 = None
02 = Soft/Defective Shoulders
03 = Bump/Ruts/Holes
04 = Loose Material on Surface
05 = Road Under Construction
06 = Limited Overhead Clearance
07 = Obstruction (Unsigned/Unsignalled)
08 = Gravel/Blacktop Windrow
09 = Water Standing on Roadway
10 = Flooded Roadway
11 = Snowdrifts, One Lane Plowed
12 = Other (Explain in Narrative)

[ ]

**SURFACE CONDITIONS**

1 = Dry 6 = Frost
2 = Wet 7 = Mud
3 = Ice 8 = Debris
4 = Snow 9 = Other
5 = Slush 0 = Unknown

(Indicate up to two conditions)

Veh 1 [ ] [ ] Veh 2 [ ] [ ] Veh 3 [ ] [ ] Veh 4 [ ] [ ]

**VEHICLE DEFECTS BEFORE CRASH**

0 = Unknown 5 = Wipers
1 = None 6 = Tires
2 = Brakes 7 = Power Failure
3 = Lights 8 = Trailer Hitch
4 = Steering 9 = Other

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

**VISION OBSCURED**

01 = Not Obscured
02 = Trees/Crops
03 = Buildings
04 = Embankment
05 = Sign/Billboard
06 = Hillcrest
07 = Parked Vehicles
08 = Moving Vehicles
09 = Person/Object in or on Vehicle
10 = Blinded by Sun or Headlights
11 = Frosted Windows or Windshield
12 = Blowing Snow
13 = Fog/Smoke/Dust
14 = Other (Explain in Narrative)
00 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

## Circumstances

**ROADWAY/ENVIRONMENT RELATED CONTRIBUTING CIRCUMSTANCES**

00 = Unknown
01 = None Apparent
02 = Weather Conditions
03 = Surface Conditions
04 = Roadway Defect
05 = Pedestrian Action
06 = Pedestrian Drinking
07 = Previous Accident
08 = Animal in Roadway
09 = Frost Covered Bridge Floor (Only)
10 = Traffic Control Not In Place or Not Functioning
11 = Non-Contact Vehicle
12 = Other

[ ] [ ] (Indicate up to two circumstances which caused or contributed to the accident)

**APPARENT DRIVER CONDITION**

1 = Apparently Normal
2 = Physical Defect
3 = Fatigued
4 = Apparently Asleep
5 = Ill
6 = Under Medication
7 = Infirmities of Age
8 = Other (Describe)
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

**APPARENT DRIVER SOBRIETY**

1 = Had Not Been Drinking
2 = Drinking - Not Impaired
3 = Drinking - Impaired
4 = Drugs
0 = Unknown

Veh 1 [ ] Veh 2 [ ] Veh 3 [ ] Veh 4 [ ]

**DRIVER/VEHICLE RELATED CONTRIBUTING CIRCUMSTANCES**

(For each vehicle, indicate up to two circumstances which caused or contributed to the accident)

00 = Unknown
01 = None Apparent
02 = Ran Traffic Signal
03 = Ran Stop Sign
04 = Passed Stopped School Bus
05 = Passing Where Prohibited
06 = Passing, Interfered with Other Vehicle
07 = Left of Center, Not Passing
08 = Failed to Yield Row (FTYROW), at Uncontrolled Intersection
09 = FTYROW, From Stop Sign
10 = FTYROW, From Yield Sign
11 = FTYROW, Making Left Turn
12 = FTYROW, From Driveway
13 = FTYROW, From Parked Position
14 = FTYROW, to Pedestrian
15 = FTYROW, Other
16 = Wrong Way on One-Way Road
17 = Speed Too Fast For Conditions
18 = Exceeding Speed Limit
19 = Drag Racing
20 = Improper Turn
21 = Improper Lane Change
22 = Following too Close
23 = No Signal or Improper Signal
24 = Disregarded Railroad Signal
25 = Disregarded Warning Signal
26 = Reckless Driving
27 = Improper Backing
28 = Illegal or Improper Parking
29 = Failure to have Control
30 = Failed to Turn on Lights
31 = Driver Physical Condition
32 = Driver Drinking Condition
33 = Inattentive or Distracted
34 = Driver Confused
35 = Inexperienced Driver
36 = Vision Obscured
37 = Vehicle Defect or Faulty Equipment
38 = Oversized Vehicle
39 = Other

Veh 1 [ ] [ ] Veh 2 [ ] [ ] Veh 3 [ ] [ ] Veh 4 [ ] [ ]

## DIAGRAM

**DIAGRAM WHAT HAPPENED:**

INDICATE NORTH

**INSTRUCTIONS**

Follow dotted lines to draw outline of roadway at place of accident.

Number each vehicle and show direction of travel by arrow.

→ [1] [2] ←

Use solid line to show path before accident.

→ [2]

dotted line after accident

- - → [2]

Show pedestrian by: —○

Show railroad by: ++++++

Show utility poles by: ⌀

Show motorcycle by: —○—○

**INITIAL DIRECTION TRAVEL**

| Veh 1 | Veh 2 | Veh 3 | Veh 4 |
|---|---|---|---|
| ☐ | ☐ | ☐ | ☐ |

1=North, 2=Northeast, 3=East, 4=Southeast, 5=South, 6=Southwest, 7=West, 8=Northwest, 0=Unknown

## NARRATIVE

**DESCRIBE WHAT HAPPENED (Refer to vehicles by number)**

## WITNESS

| Name, Last, First | Street or RFD | City | State | Zip |
|---|---|---|---|---|
| Name, Last, First | Street or RFD | City | State | Zip |
| Name, Last, First | Street or RFD | City | State | Zip |
| Name, Last, First | Street or RFD | City | State | Zip |

## ENFORCEMENT ACTION

| Driver No. | Citation No. | Statute No. | Charge | Violation of: State Code | Violation of: City Ordn | Recommend DL Reexam Yes | Recommend DL Reexam No | Vehicle to be Inspected Yes | Vehicle to be Inspected No |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| | | | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| | | | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| | | | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| | | | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

Was Investigation Made at Scene? ☐ 1=Yes 2=No

Investigation Completed? ☐ 1=Yes 2=No

Police Photos Taken at Scene? ☐ 1=Yes 2=No

Reports Given To All Drivers ☐ 1=Yes 2=No

This Location Needs: ☐ 1=Selective Enforcement 2=Engineering Study 3=Road Maintenance 4=Other 5=No Recommendation

OFFICER COMMENTS CONCERNING LOCATION NEEDS

Time Officer Notified of Accident _____ ☐ A.M. ☐ P.M. Date

Time Officer Arrived At Scene _____ ☐ A.M. ☐ P.M. Date

Signature of Officer | Badge No.

Name of Department | Date of Report

Report Reviewed by | Date Reviewed

1 nc Dec 21, 79

jcsurth S 2880-401

**SUMMARY**
**Driver:**
**Age/Sex**

## Erratum Sheet
## for
## 1978 Iowa Motor Vehicle Accidents
## Page 6

| Age | Licensed Drivers | Drivers Involved in Accidents | Drivers Involved in Fatal Acc. | Acc. Rate** | Fatal Acc. Rate** |
|---|---|---|---|---|---|
| 15 & under | 55,406* | 936 | 15 | 169 | 2.71 |
| 16 | 50,319 | 7,495 | 32 | 1,489 | 6.36 |
| 17 | 57,220 | 9,193 | 26 | 1,607 | 4.54 |
| 18 | 61,329 | 9,560 | 59 | 1,559 | 9.62 |
| 19 | 61,089 | 8,244 | 47 | 1,350 | 7.69 |
| 20-24 | 318,964 | 29,025 | 188 | 910 | 5.89 |
| 25-34 | 576,665 | 31,748 | 181 | 551 | 3.14 |
| 35-44 | 345,030 | 16,790 | 95 | 487 | 2.75 |
| 45-54 | 294,220 | 13,347 | 77 | 454 | 2.62 |
| 55-64 | 271,929 | 10,816 | 70 | 398 | 2.57 |
| 65-74 | 194,514 | 6,438 | 33 | 331 | 1.70 |
| 75 & up | 111,971 | 3,516 | 30 | 314 | 2.68 |
| Not stated | -- | 461 | 10 | -- | -- |
| Total | 2,398,656 | 147,569 | 863 | 615 | 3.60 |
| **Sex** | | | | | |
| Male | 1,167,805 | 100,219 | 693 | 858 | 5.93 |
| Female | 1,230,851 | 46,923 | 166 | 381 | 1.35 |
| Not stated | -- | 427 | 4 | -- | -- |
| Total | 2,398,656 | 147,569 | 863 | 615 | 3.60 |

*Includes instruction permits and school permits (permits to drive to and from school).
**Accidents/fatal accidents per 10,000 licensed drivers.

If you have any questions, contact:

Iowa Department of Transportation
Office of Safety Programs
Lucas Bldg., Des Moines, Iowa 50319

Phone: (515) 281-8478